

**STIC Database Tracking Number: 300604**

**To: Mike Fuelling**  
**Location: KNX 0D75**  
**Art Unit: 3626**  
**Date: 07/06/09**  
**Case Serial Number: 10/805149**

**From: Eileen Patton**  
**Location: EIC3600**  
**KNX 2D08A**  
**Phone: (571) 272-3413**  
**eileen.patton@uspto.gov**

## **Search Notes**

Dear Examiner Fuelling:

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, ProQuest, EBSCOhost, Nexis and the internet.

I have listed *potential* references of interest in the first part of the search results. However, please be sure to scan through the entire report. There may be additional references that you might find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

I.	POTENTIAL REFERENCES OF INTEREST .....	3
A.	Dialog .....	3
II.	INVENTOR SEARCH RESULTS FROM DIALOG .....	8
III.	TEXT SEARCH RESULTS FROM DIALOG .....	9
A.	Patent Files, Abstract.....	9
B.	Patent Files, Full-Text.....	31
IV.	TEXT SEARCH RESULTS FROM DIALOG .....	42
A.	NPL Files, Abstract.....	42
B.	NPL Files, Full-text .....	48
V.	ADDITIONAL RESOURCES SEARCHED .....	58

*\*EIC-Searcher identified “potential references of interest” are selected based upon their apparent relevance to the terms/concepts provided in the examiner’s search request.*

## I. Potential References of Interest

### A. Dialog

19/3,K/11 (Item 7 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

(c) 2009 The Thomson Corporation. All rights reserved.

00246885 32-11865

#### **OHIO LETS ROBOT FILL CASSETTES WITHOUT PHARMACIST CHECK**

Gannon, K.

Hospital Pharmacist Report, V9, (Jun), p16, 1995

**Language:** English **Record Type:** Abstract

#### **OHIO LETS ROBOT FILL CASSETTES WITHOUT PHARMACIST CHECK**

The use of a **robotic** device to fill patient cassettes as well as to stock drugs **without a pharmacist** check at 1 Ohio hospital is described, including the conditions that must be met before the **robot** can be used and how the **robot** operates.

**Descriptors:** **Robotics** -- dispensing, hospital pharmacy; Pharmacy, institutional, hospital -- **robotics**, **dispensing**, stocking; **Dispensing** -- **drugs**, **robotics**, hospital pharmacy

25/3,K/9 (Item 7 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0012657917 *Drawing available*

WPI Acc no: 2002-507654/200254

Related WPI Acc No: 2002-121146

XRFX Acc No: N2002-401770

**Automatic medications dispensing system initiates vending session by transmitting signal representing patient ID code to remote controller which sends enabling signal to vending machine to dispense prescribed medication**

Patent Assignee: LION N (LION-I)

Inventor: LION N

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020062175	A1	20020523	US 1999358063	A	19990721	200254	B
			US 200117524	A	20011207		
US 6438451	B1	20020820	US 1999358063	A	19990721	200262	E
			US 200117524	A	20011207		

Priority Applications (no., kind, date): US 1999358063 A 19990721; US 200117524 A 20011207

...Integrated system and method of vending prescription medications using a network of remotely distributed, **automated** dispensing units. **Alerting Abstract** ...remote controller. The remote controller associates the PtID code with an authorized request and transmits an enabling signal to the RVM instructing the RVM to **dispense** prescribed **medications**. ... Integrated **medication distribution system**; and **Medication dispensing** method.

USE - For **automatic** vending of prescription medications to **patients** through remote vending units connected to Internet pharmacy or cyber pharmacy... frequently prescribed medications, an online Internet or mail order pharmacy offers a level of access to emergency medications and pharmaceutical services that is complete and **comprehensive**. RVM units not only **dispense** solid dosage units, but also ointments, creams, liquids, prepackage dosage units, injectable solutions, etc. **The RVM stores separately the active and inert ingredients so that mixing can be deferred until the time of distribution to consumers....** DESCRIPTION OF DRAWINGS - The figure shows a schematic block diagram of connectivity between RVM units and centralized **prescription filling facility**. Title Terms /Index Terms/Additional Words: **AUTOMATIC**; Class Codes Original Publication Data by Authority Argentina Publication No. Original Abstracts: A network of interactive, self-service, **medication dispensing** kiosks that are **each** adaptable to contain an inventory of, for example, 200 to 1600 different drugs, as may be currently obtained directly from a local storefront, mail order... A network of interactive, self-service, **medication dispensing** kiosks that are **each** adaptable to contain an inventory of, for example, 200 to 1600 different drugs, as may be currently obtained directly from a local storefront, mail order, or... **Claims:** What is claimed is: 1. A system for **unattended dispensing of medications**, comprising: a remote vending machine (**RVM**) unit adapted to **dispense** at least one of a plurality of **drugs** contained therein in accordance with an authorized **prescription**, said **dispensing unit** including a data entry device of entering a patient **identification** key code (PtID) corresponding to a particular patient; a remote controller operative to associate a PtID code with at least one authorized Rx request to... of said PtID code to said remote controller, and wherein said RVM unit is further operative, in response to receipt of the enabling signal to **dispense** the prescribed **medication**. A method of **dispensing medication** to a patient, comprising the steps of: receiving, at a first location, an Rx request to supply a patient with at least one **package containing a drug** prescribed by a physician; creating a record comprising an encrypted file containing information relating to an Rx request received during the receiving step and instructions for **enabling** a remote **drug dispensing** machine to **dispense** the **drug** specified by a physician; and associating a unique Rx transaction key code with the record created during the creating step, said Rx **transaction key** code being **adapted** for use by a remote **drug dispensing** machine to decrypt said record. Basic Derwent Week: 200254

25/3,K/13 (Item 11 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0010941667 *Drawing available*

WPI Acc no: 2001-564212/**200163**

Related WPI Acc No: 1999-517397

XRAM Acc no: C2001-167398

XRPX Acc No: N2001-419967

**Robotic medicament dispenser for pharmaceutical solutions has supply bag, mixing bag, water level detector, water supply controller, administration bag, filter, and control valves**

Patent Assignee: KAO T (KAOT-I)

Inventor: KAO T

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6267753	B1	20010731	US 1997892571	A	19970715	200163	B

Priority Applications (no., kind, date): US 1997892571 A 19970715

**Robotic medicament dispenser for pharmaceutical solutions has supply bag, mixing bag, water level detector, water supply controller, administration bag, filter, and control valves** Original Titles: Robotic medicament dispenser. Alerting Abstract ... NOVELTY - A robotic medicament dispenser has supply bag which

retains water, mixing bag, first valve to control admission of water to the mixing bag, electric eye to detect...  
DESCRIPTION - A **robotic** medicament dispenser includes a supply bag (24) which retains water, a mixing bag (28), a first valve (26) for controlling the admission of water from...  
...USE - For **preparing pharmaceutical** solutions, particularly for intravenous injection and ophthalmic application...  
...ADVANTAGE - **The invention fully controls the preparation of pharmaceutical** solutions without requiring manual processing. It can rapidly **make formulations** with unwavering procedures that are not subject to human error. By the use of prefilled...  
...variables with respect to precise quantities of liquids can be eliminated. A single pharmacist may thus oversee a large quantity of preparations. Because of the **automatic** nature of the apparatus, the **pharmacist** may **operate** the apparatus **remotely** from the actual **preparation** site. The assembly can be preserved to provide accurate and verifiable record of the medicaments administered, should any untoward symptoms develop in the patient...  
...DESCRIPTION OF DRAWINGS - The figure shows a schematic view of an assembly within the **robotic** medicament dispenser...  
**Title Terms /Index Terms/Additional Words: ROBOT; Class Codes** Original Publication Data by Authority Argentina **Publication No. Original Abstracts: Robotic manipulation of three-part plastic preparation assemblies automatically produces IV solutions which conform to a input specifications of a pharmacist located on site or remotely, including preparation telerobotically.** The transparent plastic bag assemblies are stored in a magazine, and are extracted automatically one by one for **preparation of individual prescriptions.** A supply bag is prefilled with U.S.P. water and is connected through a valve to a mixing bag. Unit dose holders with medicaments... Basic Derwent Week: **200163**

25/3,K/25 (Item 23 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0005529084

WPI Acc no: 1991-133031/**199118**

XRPX Acc No: N1991-102172

**Automated home-care patient health monitoring system - administrates complex medication at home without medical supervision and is responsive to physical environment**

Patent Assignee: HEALTH TECH SERVICES CORP (HEAL-N); HEALTHTECH SERVICES (HEAL-N); HEALTHTECH SERVICES CORP (HEAL-N); SHEBALIN A I (SHEB-I)

Inventor: DIGIANFILIPPO A; DIGIANILI A; KAUFMAN S B; KAUMAN S B; MEYER A R; SAGER T L

Patent Family ( 9 patents, 15 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1991005311	A	19910418	WO 1990US5603	A	19900928	199118	B
AU 199065193	A	19910428				199131	E
US 5036462	A	19910730	US 1989414705	A	19890929	199133	E
EP 493510	A1	19920708	EP 1990915043	A	19900928	199228	E
			WO 1990US5603	A	19900928		
JP 5502530	W	19930428	JP 1990514081	A	19900928	199322	E
			WO 1990US5603	A	19900928		
AU 641187	B	19930916	AU 199065193	A	19900928	199344	E
EP 493510	A4	19930107	US 1992877695	A	19920501	199524	E
EP 493510	B1	19961113	EP 1990915043	A	19900928	199650	E
			WO 1990US5603	A	19900928		
DE 69029142	E	19961219	DE 69029142	A	19900928	199705	E
			EP 1990915043	A	19900928		
			WO 1990US5603	A	19900928		

Priority Applications (no., kind, date): US 1989414705 A 19890929

**Automated home-care patient health monitoring system...** ...administers complex medication at home without medical supervision and is responsive to physical environment **Alerting Abstract** ...between the parameters, while a second command signal is generated when it does not. The command signal can be used to base a decision to **dispense medication** to the patient (step 77), or to change the patient's immediate environment... **Equivalent Alerting Abstract** ...output, different from the first output, in response to the second command signal, one of the first and second outputs actuating the delivery mechanism to **dispense the medication** dose. @ (32pp)@ **Technology Focus Title Terms** /Index Terms/Additional Words: **AUTOMATIC; Class Codes** Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**the two parameters, while a second command signal is generated when it does not. The command signal can be used to base a decision to **dispense medication** to the patient (step 77), or to change the patient's immediate environment (step 73)... ... the two parameters, while a second command signal is generated when it does not. The command signal can be used to base a decision to **dispense medication** to the patient, or to change the patient's immediate environment... ... the two parameters, while a second command signal is generated when it does not. The command signal can be used to base a decision to **dispense medication** to the patient (step 77), or to change the patient's immediate environment (step 73). ...**Claims:**between the parameters, while a second command signal is generated when it does not. The command signal can be used to base a decision to **dispense medication** to the patient (step 77), or to change the patient's immediate environment... ... the first output, in response to the second command signal (77), one of the first and second outputs (73,54) actuating the delivery mechanism to **dispense the medication** dose. Basic Derwent Week: **199118**

19/3,K/6 (Item 2 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

(c) 2009 The Thomson Corporation. All rights reserved.

00332296 38-12846

## **EXPANDING PHARMACIST AND MEDICATION ACCESS THROUGH TELEPHARMACY**

Byer, H. A.; Heaton, K. J.; Haberman, D. A.; Clifton, G. D.

CHAS Pharm., 9227 E. Main Ave., Spokane, WA 99206, USA Internet: hbyer@echas.org

ASHP Midyear Clinical Meeting, V36, (Dec), pP-539D, 2001

Abstract of Meeting Presentation

**Language:** English **Record Type:** Abstract

...who would otherwise be unable to obtain medical and prescription services. In September 2000 CHAS, in collaboration with Washington State University College of Pharmacy, implemented **telepharmacy**, an innovative and cost effective approach of providing access to medication and direct **pharmacist interaction**. **Telepharmacy** at CHAS resulted from a federally funded Demonstration Project Grant through the Office of Pharmacy Affairs. It consists of **a single base pharmacy that processes prescriptions for several remote locations**. Each remote site contains an **Automated Drug Dispensing System (ADDS)** that can hold up to 87 medications. Each site also includes a teleconference system in which the pharmacist is able to visually check the **medication** being **dispensed** and counsel the patient. Implementing **telepharmacy** at CHAS required addressing several critical issues, including: obtaining 340B public health service pricing, securing Board of Pharmacy approval for **technician operation** of the **remote** ADDS, facing unique formulary issues due to space limitations, ensuring secure and reliable connectivity, and overcoming technical challenges. This pilot project demonstrates the feasibility of offering **remote** site **dispensing** of **medication** along with comprehensive pharmacy care in a community health center setting. During an era of pharmacist shortage, this approach has the potential to expand the reach of pharmaceutical care to patients with otherwise limited access. Learning objectives: 1. Identify obstacles related to implementation of **telepharmacy**. 2. Describe the unique formulary issues that must be addressed with **telepharmacy**. 3. Discuss the potential for **telepharmacy** to impact health care outcomes and costs.

Self-assessment questions: True or False: 1. Most state Pharmacy Practice Acts currently allow pharmacy technicians to **dispense medication** from ADDS. 2. Community health centers qualify for 340B public health service pricing without applying to the Office of Pharmacy Affairs. 3. Geographic location limits the ability to use **telepharmacy** services.

Answers: 1. F; 2. F; 3. F.

**Descriptors:** Practice Interest Areas -- Ambulatory and Primary Care, meeting presentations; ASHP meeting abstracts -- **telepharmacy**; Administration -- pharmacy services, **telepharmacy**; **Dispensing -- prescriptions, telepharmacy**; **Prescriptions -- dispensing, telepharmacy**; Telecommunications -- pharmacists, **telepharmacy**; Ambulatory care -- pharmaceutical care, **telepharmacy**; Pharmacy services -- consultation, **telepharmacy**; Pharmaceutical care -- consultation, **telepharmacy**; Patient information -- consultation, **telepharmacy**

24/3,K/1 (Item 1 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

(c) 2009 ProQuest Info&Learning. All rights reserved.

02264437 43897120

## **Dispensing by remote control cuts drug costs at clinic**

Ukens, Carol

Drug Topics  
v143n13 pp: 59  
Jul 5, 1999

ISSN: 0012-6616 **Journal**

Code: RXT

**Abstract:**

An Iowa community pharmacy helped lower drug costs in a rural clinic 30 miles **away** by **dispensing prescriptions** via an **automated remote control** unit produced in North Billerica, Massachusetts.

## II. Inventor Search Results from Dialog

2/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
(c) 2009 Thomson Reuters. All rights reserved.  
0014141848 *Drawing available*  
WPI Acc no: 2004-326603/200430  
XRAM Acc no: C2004-123918  
XRPX Acc No: N2004-260360

**Automated preparation and delivery of prescription medications to outpatients, involves transmitting prescription electronically to pharmacist, and preparing medical item in pharmacy according to pharmacist's direction**

Patent Assignee: DIEBOLD INC (DIEB-N)

Inventor: **REESE R**

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6711460	B1	20040323	US 2001299116	P	20010618	200430	B
			US 2002172391	A	20020614		

Priority Applications (no., kind, date): US 2001299116 P 20010618; US 2002172391 A 20020614

Patent Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6711460	B1	EN	28	16	Related to Provisional US 2001299116

Inventor: **REESE R** Original Publication Data by AuthorityArgentina**Publication No.** Inventor name & address:**Reese, Rod...** ...**Original Abstracts:**individual pharmacy includes one or more drug preparation areas, and one or more self-service or staffed customer terminals. A drug preparation area includes a **robot**, which is adapted to prepare prescriptions or other items, and which is connected by a pneumatic delivery system to one or more customer terminals within the pharmacy.



### III. Text Search Results from Dialog

#### A. Patent Files, Abstract

**File 347:JAPIO Dec 1976-2009/Jan(Updated 090503)**

(c) 2009 JPO & JAPIO

**File 350:Derwent WPIX 1963-2009/UD=200939**

(c) 2009 Thomson Reuters

Set	Items	Description
S1	1165578	(ROBOT? ? OR ROBOTIC? OR ROBO OR AUTOMAT??? OR ROBOPHARM? - OR TELEPHARMAC?)
S2	82811	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMAECEUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS OR PATIENT? ? (-) CASSETTE? ?)
S3	25	(VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED? OR MECHANICAL OR MECHANIZED OR SELF()SERVICE OR AUTOMAT???) (5N) (PHARMACIST? ? OR PHARMAECIST? ? OR PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARM D OR PHARMACY()TECH OR TECHNICIAN? ?) OR ROBOPHARMAC? OR TELEPHARMAC?)
S4	13953	("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED - OR LOCATED) OR UNATTENDED OR UNSUPERVISED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") (1W) (SUPERVISI?? OR OVERSIGHT OR - DIRECTION? ? OR PHARMACIST? ? OR PHARMAECIST? ? OR CHEMIST? ?)
S5	22	S4 (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR PHARMACY()TECH? ? OR PHYSICIAN? ?)
S6	304479	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR - OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT???)
S7	53173	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? - OR PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR INTERACT?????)
S8	2007	S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))
S9	0	(ROBOT? ? OR ROBOTIC OR ROBO) (5N) (PHARMA?) (10N) (FILL??? OR PREPARE? ? OR PREPARING) (5N) (PRESCRIPTION? ?) (10N) (REMOTE OR - REMOTELY) (3N) (CONTROL? OR OPERAT???)
S10	72084	IC=B25J
S11	1698	S1 AND S2
S12	1	S11 AND S5
S13	4	S11 AND S8
S14	137	S11 AND S6
S15	11	S14 AND S7
S16	1	S3 AND S8
S17	5	S3 AND S7
S18	5	S3 AND S6

S19	0	S5 AND S10
S20	14	S11 AND S10
S21	7	S11 AND S4
S22	40	S12 OR S13 OR S15 OR S16 OR S17 OR S18 OR S20 OR S21
S23	18	S22 AND PY=1963:2001
S24	20	S22 AND AY=1963:2001 AND AC=US
S25	25	S23 OR S24

25/3,K/1 (Item 1 from file: 347)

DIALOG(R)File 347: JAPIO

(c) 2009 JPO & JAPIO. All rights reserved.

04058297 \*\*Image available\*\*

# **TEACHING METHOD FOR CREAM SOLDERING DISPENSER AND DEVICE THEREFOR**

**Pub. No.:** 05-049997 [JP 5049997 A ]

**Published:** March 02, 1993 (19930302)

**Inventor:** ATOU TAKAYOSHI

KOIKE NOBUYUKI

**Applicant:** FUJI ELECTRIC CO LTD [000523] (A Japanese Company or Corporation), JP (Japan)

**Application No.:** 03-161925 [JP 91161925]

**Filed:** July 03, 1991 (19910703)

**Journal:** Section: C, Section No. 1079, Vol. 17, No. 355, Pg. 111, July 06, 1993 (19930706) ...

**Published:** 19930302)

**International Class:** B05C-005/00; B05D-001/26; B23K-003/00; B23K-003/06; **B25J-009/10; B25J-009/22; B25J-013/08;** H05K-003/34; B23K-101/42

**JAPIO Class:** ...Industrial Robots); 42.1 (ELECTRONICS...

**JAPIO Keyword:**

## **ABSTRACT**

...CONSTITUTION: A solder feeding syringe is installed on the ends of a positioning **robot**, and the syringe is moved to the actual mounting positions of the specified electronic parts on a printed wiring board by the **robot** operation, and a spot light projector 7 is replaced by said **syringe** for a cream soldering **dispenser** for coating cream solder and installed to a hand 3a of a positioning **robot** 3. In said state, while the hand of the **robot** is moved by the remote operation of a teaching box 11, the light spot emitted from the projector is spotted on the parts positions 10 (spots A and B) displayed on a printed wiring board 5, and positioning data is inputted into a **robot** controller 4 and teaching is performed. The light is transmitted from a light source 8 to the projector through an optical fiber 9. Di01

25/3,K/2 (Item 2 from file: 347)

DIALOG(R)File 347: JAPIO

(c) 2009 JPO & JAPIO. All rights reserved.

03423247 \*\*Image available\*\*

# **PRESCRIPTION DATA DEVELOPMENT PROCESSING SYSTEM**

**Pub. No.:** 03-086147 [JP 3086147 A ]

**Published:** April 11, 1991 (19910411)

**Inventor:** OKA KAZUHIKO

**Applicant:** TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

**Application No.:** 01-222893 [JP 89222893]

**Filed:** August 31, 1989 (19890831)

**Journal:** Section: C, Section No. 845, Vol. 15, No. 256, Pg. 167, June 28, 1991 (19910628) ...

**Published:** 19910411)

## ABSTRACT

PURPOSE: To **automatize** the job of a **pharmacist** by extracting the attribute data of a patient in a patient master corresponding to inputted prescription data and the attribute data of a medicine in... ..CONSTITUTION: An **operator (pharmacist)** inputs the prescription data of a prescription such as a patient number and a prescription content, etc., issued by a doctor from a keyboard comprising ... ..the name of a prescribed medicine, and a check content (instructing way to take medicine) are entered. In such a way, it is possible to **automatize** the complicated job of the **pharmacist** and to reduce the labor of the job. Di01

25/3,K/3 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013799690 *Drawing available*

WPI Acc no: 2003-899762/200382

Related WPI Acc No: 2003-656257; 2003-895235

XRPX Acc No: N2003-718200

**Vial gripping mechanism for automatic medicament dispensing machine, includes sensor and cable in channel of swing arm which is secure to jaws rotated by motor**

Patent Assignee: COUGHLIN M E (COUG-I); COUGHLIN S P (COUG-I); ORR S (ORRS-I); SCRIPTPRO LLC (SCRI-N); SURGEON T (SURG-I)

Inventor: COUGHLIN M E; COUGHLIN S P; ORR S; SURGEON T

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030194306	A1	20031016	US 2001288126	P	20010502	200382	B
			US 200240824	A	20020107		
			US 2003440298	A	20030516		
US 6905046	B2	20050614	US 200240824	A	20020107	200540	E
			US 2003440298	A	20030516		

...USE - Vial gripping mechanism for use with **automatic** medicament **dispensing** machine (claimed) including **pill** count sensor to count tablets, capsules... **Title Terms** .../Index Terms/Additional Words: **AUTOMATIC**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date "Version 7" ...**B25J-0015/02**... ..**B25J-0019/02** ...**B25J-0015/02**... ..**B25J-0019/02** Original Publication Data by AuthorityArgentina**Publication No. Claims:**1. A vial gripping mechanism operable to carry a sensor for use in an **automatic** medicament dispensing machine, **the** mechanism comprising:a first rotatable jaw;a second jaw operable to rotate toward the first jaw thereby gripping a vial;a rotatable swing arm rotatably... .. 8. A vial gripping mechanism operable to carry a sensor for use in an **automatic** medicament dispensing machine, the mechanism comprising:a first rotatable jaw;a second jaw operable to rotate toward **the** first jaw thereby gripping a vial;a rotatable swing arm;a cam operable to cause rotation of the swing arm; anda motor operable to... .. Basic Derwent Week: 200382...

25/3,K/4 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013583364 *Drawing available*  
WPI Acc no: 2003-678036/200364  
XRPX Acc No: N2003-541286

**Drug compliance monitoring system, has medical container with transceiver transported on users body, drug containing unit containing drug dosage and programmable unit receiving real time communication from transceiver**

Patent Assignee: KATAKAM M (KATA-I); SASTRY S V (SAST-I); SNYDER O E (SNYD-I)

Inventor: KATAKAM M; SASTRY S V; SNYDER O E

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030086338	A1	20030508	US 2001344524	P	20011108	200364	B
			US 2002291077	A	20021108		

Priority Applications (no., kind, date): US 2001344524 P 20011108; US 2002291077 A 20021108

**Original Abstracts:**that holds a wireless device, the patient's drugs, and a cpu programmable remotely and automatically from normal computer input by health care providers and **pharmacists to control the functioning** of **the** wireless transceiver and a variety of sound, vibration, light and readable screen for reminders and to provide drug related information. A sensor detects and wirelessly... **Claims:**and automatically sending real time communications to the wireless transceiver related to drug dosage compliance, and the remote programmable means being capable of communicating with a drug **dispensing** source computer **via** the internet and with a health care professional **computer via** the internet, the **drug dispensing** source computer and health care professional computer being each being capable of **automatically** communicating information to the wireless transceiver and capable of programming the programmable means of the modified medicine container automatically in response to drug information and... Basic Derwent Week: 200364

25/3,K/5 (Item 3 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
(c) 2009 Thomson Reuters. All rights reserved.  
0013523045 *Drawing available*  
WPI Acc no: 2003-616162/200358  
XRAM Acc no: C2003-168114  
XRPX Acc No: N2003-490599

**Selecting near optimal or optimal mathematical model from set of candidate models, such as phamacokinetic or pharmacodynamic models, comprises defining candidate search space**

Patent Assignee: SALE M E (SALE-I)

Inventor: SALE M E

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030088320	A1	20030508	US 2000210672	P	20000610	200358	B
			US 2001878686	A	20010611		
US 7085690	B2	20060801				200650	E

Priority Applications (no., kind, date): US 2000210672 P 20000610; US 2001878686 A 20010611

**Original Titles:**Unsupervised machine learning-based mathematical model selection **Technology Focus** ...pharmacodynamic model, the presence of an effect compartment; the relationship between drug elimination and renal function, age, liver function, gender, and/or weight; the relationship between drug volume of **distribution** and age, gender, weight, renal function, liver function and/or **cardiac** function; and/or the relationship between **drug** bioavailability and age, gender, weight, liver function, and/or renal function.**Extension Abstract** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** The invention provides an **automated** method for identifying an optimal or near optimal mathematical model to describe observed data including: a) the definition of a candidate model search space, b) methods for searching said... Basic Derwent Week: 200358

25/3,K/6 (Item 4 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013492846 *Drawing available*

WPI Acc no: 2003-585164/200355

XRPX Acc No: N2003-465828

**Buoyancy device for providing hydrotherapeutic support e.g. for burn victims, has conformal cavity formed so that volume of liquid that occupies space and immersed portion of human is minimized**

Patent Assignee: BODKIN L E (BODK-I)

Inventor: BODKIN L E

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030053863	A1	20030320	US 2000496467	A	20000202	200355	B
			US 2002213312	A	20020806		

Priority Applications (no., kind, date): US 2000496467 A 20000202; US 2002213312 A 20020806

Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**undue expense and it also becomes both practical and convenient to add soothing emollients, as well as more specifically prescribed topical medications, to the supporting **liquid for automatic distribution** and application. **Restricted** range of movement and the minimal presence of liquid permits an immersed patient to be left relatively **unattended** without the usual **drowning** hazard.

25/3,K/7 (Item 5 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013484665 *Drawing available*

WPI Acc no: 2003-576785/200354

Related WPI Acc No: 2003-416016; 2003-439598; 2003-576686; 2004-641473; 2004-774857; 2008-A97479

XRPX Acc No: N2003-458475

**Therapeutic product dispensing method, involves labelling containers having therapeutic products with details in prescription that is obtained from electronic device, checking and dispensing containers to user**  
Patent Assignee: MENDOTA HEALTHCARE INC (MEND-N); MENDOTA MEDICAL PROD INC (MEND-N)

Inventor: ROSENBLUM K

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030093181	A1	20030515	US 2000210303	P	20000608	200354	B
			US 2000714802	A	20001116		
			US 2002328492	A	20021223		
US 6766218	B2	20040720	US 2002328492	A	20021223	200448	E

Priority Applications (no., kind, date): US 2000210303 P 20000608; US 2000714802 A 20001116; US 2002328492 A 20021223

...ADVANTAGE - The **dispensing** apparatus delivers the prescribed **drugs** quickly and efficiently **without the presence of a pharmacist**, thereby reducing the errors committed by humans... Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** An **automatic prescription drug dispenser** including a remote **dispenser**, a **prescription** entry system, and a communications network. The remote dispenser transmits and receives information from the communications network and **dispenses prescription drugs** to the patient. The prescription entry system transmits and receives information from the communications network and provides an input system for the doctor to electronically enter individual prescriptions for each patient. The communications network coordinates communications between the doctor, insurance carrier, and the remote dispenser. The remote **dispenser** stores, retrieves, and labels **prescription** drug and over-the-counter products directly to patients through a remote **automated** vending machine, a remote **dispenser**, a **prescription** entry system, and a communications network. The remote dispenser transmits and receives information from the communications network and **dispenses prescription drugs** to the patient. The prescription entry system transmits and receives information from the communications network and provides an input system for the doctor to electronically...  
.....**Claims:**at least the patient's name and dosage instructions obtained from the prescription, verifying the labeled container, and dispensing the labeled container to a user **without a pharmacist** physically present...  
Basic Derwent Week: 200354...

25/3,K/8 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013304753 *Drawing available*

WPI Acc no: 2003-391688/200337

XRAM Acc no: C2003-104028

XRPX Acc No: N2003-312868

**Network of medical databases for facilitating delivery of medical services, comprises central server, database in hospital, insurance, and pharmacy computer systems, and electronic input device**

Patent Assignee: EKE L (EKEL-I)

Inventor: EKE L

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020188467	A1	20021212	US 2001846381	A	20010502	200337	B

Priority Applications (no., kind, date): US 2001846381 A 20010502

USE - For facilitating delivery of medical services by **interaction** between **physicians**, patients, pharmacies and

insurance companies to deliver needed medical care.... ... ADVANTAGE - The inventive information network integrates voice interactive, text interactive and streaming video on high speed optical and satellite connection to deliver **virtual information** to **physicians**, nurses, **pharmacists** and patients, to improve delivery and quality of medical services. **The network brings order, control, information**, collaboration, verification, security, efficiency, cost recovery and accepted procedural central standardization to the field of medical services. It allows institutions to save money in systemOriginal Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** An information network that integrates voice interactive, text interactive and streaming video on high speed optical and satellite connection to deliver **virtual** information to physicians, **nurses, pharmacists** and patients. This **virtual** resource network provides **the** patient records upon voice command and verifies insurance coverage, searches for proper dosage, alternative drugs, evaluates pricing and availability. This virtual resource network also prepares...

25/3,K/10 (Item 8 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0011183203

WPI Acc no: 2002-121146/**200216**

Related WPI Acc No: 2002-507654

XRAM Acc no: C2002-037001

XRPX Acc No: N2002-090838

**System for unattended dispensing of medications includes a remote vending machine unit including data entry device, a centralized control facility and a database associated with the centralized control facility**

Patent Assignee: LION N (LION-I)

Inventor: LION N

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6330491	B1	20011211	US 1999358063	A	19990721	200216	B

Priority Applications (no., kind, date): US 1999358063 A 19990721

**Alerting Abstract** ...NOVELTY - A system for **unattended dispensing** of medications contains a remote vending machine unit including data entry device, a centralized control facility and a database associated with the centralized control facility. DESCRIPTION - A system for **unattended dispensing** of medication comprises... ... a remote vending machine (RVM) unit to **dispense** at least one **drug** contained in it **in** accordance with an authorized prescription (Rx), including a data entry device for entering a patient identification key code (PtID); a centralized control facility to associate... ... representative of the PtID code to the centralized control facility. The RVM unit is further operative, in response to receipt of the enabling signal to **dispense** the prescribed **medication**.... ... an integrated **medication distribution** system comprising: the centralized control facility to associate at least one PtID **key code**, each corresponding to a respective patient, with at least one authorized Rx request to supply a drug to a patient; the database digitally **fill** a **prescription** and a corresponding unique transaction identification key code (RxID); and several RVM units each remotely located from the **remote** controller. **The** data entry device enters the PtID code to initiate a **drug dispensing** session. Any of the several RVM units transmits a signal representative of the PtID code to the centralized control facility **in response to** actuation of a corresponding data entry device. An originating one of the several RVM units is further operative, in response to receipt of an enabling signal, to **dispense** the prescribed Rx **drug**; and a method of **dispensing medication** to a patient at a selected drug dispersing unit involving: receiving, at a first location, a **request** to supply a patient with at least **one package** containing a **drug** prescribed by a physician; validating the request received to ensure the patient is authorized to receive a prescribed medication; providing a patient authorized to

receive a prescribed medication with a **unique** identifier; causing a **drug dispensing** unit to **dispense** the **medication** specified in the request received during the receiving step for **distribution** to the patient, in response to entry of the unique identifier at a second location remotely disposed relative to **the first** location. USE - For **unattended dispensing** of **medications** (claimed).ADVANTAGE - The kiosks constructed are unmanned. By strategically locating the dispensing kiosks in easily accessible locations, a delay permissible before a patient must receive a drug identified in a request received during the receiving step; (vii) storing, at each of several of **prescription medication dispensing** units remotely located from one another, an inventory of frequently prescribed medications including at least some drugs which a patient is advised to take as... ..of a prescription by a physician; (viii) establishing a communication link between a pharmacist at a centralized location and a patient disposed proximate a remote **drug dispensing** unit. The step of remotely operating is performed from the centralized location. The **drug dispensing** unit is responsive to remotely transmitted commands so as to **dispense** to the patient a **drug** specified in the request received during the receiving step. The receiving step (vi) includes receiving a request for a drug via one of a data... ..mail and express courier in the event a permissible delay exceeding an applicable threshold identified during said step of identifying. The step of causing a **drug dispensing** unit to **dispense** comprises transmitting, from the **drug dispensing** unit, a signal representative of an entered key code to a remote controller operative to associate a corresponding patient identification key code with a particular validated prescription. The method further includes a step of storing, for each request to **dispense** a **drug**, an encrypted enabling signal and a corresponding transaction key code unique to each particular request for decrypting instructions for filling a request at the dispensing... ..the signal transmitted during the transmitting step, the remote controller performs a step of transmitting the encrypted enabling signal and transaction key code to the **prescription medication dispensing** unit when a corresponding match is identified. The dispensing unit is responsive to receipt of the enabling signal and transaction key code to decode instructions for filling a request and to **dispense** a corresponding **drug** in accordance with the decoded instructions. **Extension Abstract Title Terms** .../Index Terms/Additional Words: **UNATTENDED**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**A network of interactive, self-service, **medication dispensing** kiosks that are each adaptable to contain an inventory of, for example, 200 to 1600 different drugs, as may be currently obtained directly from a... **Claims:**A system for **unattended dispensing of medications**, comprising:a remote vending machine (RVM) unit adapted to dispense at least one of a plurality of **drugs** contained therein in accordance with an authorized **prescription Rx**, said **dispensing unit** including a **data** entry device for entering a patient identification key code (PtID) corresponding to a particular patient;a centralized control facility operative to associate a PtID code... .. said PtID code to said centralized control facility, andwherein said RVM unit is further operative, in response to receipt of the enabling signal to **dispense** the prescribed **medication**.>**Basic Derwent Week: 200216**

25/3,K/11 (Item 9 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0011171511 *Drawing available*

WPI Acc no: 2002-109244/**200215**

XRAM Acc no: C2002-033645

XRPX Acc No: N2002-081510

**Microtube for conducting experiments for medicine preparation , has grooves provided in cover, main tube to enable holding of micro tube by robot hand**

Patent Assignee: NISSEI SANGYO KK (NSSK)

Inventor: OOTAKI T

Patent Family ( 1 patents, 1 countries )



Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2001246267	A	20010911	JP 200059910	A	20000306	200215	B

Priority Applications (no., kind, date): JP 200059910 A 20000306

**Microtube for conducting experiments for medicine preparation , has grooves provided in cover, main tube to enable holding of micro tube by robot hand** Alerting Abstract ...1), respectively provided with grooves on the outer surface, is new. The grooves provide provision for holding the cover and the main tube by respective **robot** hands. Several micro tubes are stored in a rack (2). The top and the bottom surfaces of the micro tube are made flat. ... Rack for mounting micro tubes; **Robot** arm; and Printing apparatus for **micro** tubes... ... USE - For conducting experiments for **preparation** of **medicine**.**Title Terms** .../Index Terms/Additional Words: **ROBOT**; **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date "Version 7" ...**B25J-0015/00**... ...**B25J-0015/08** ...**B25J-0015/00**... ...**B25J-0015/08** Basic Derwent Week: **200215**

25/3,K/12 (Item 10 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0011152156

WPI Acc no: 2002-089316/**200212**

Related WPI Acc No: 2003-576440

XRAM Acc no: C2002-027473

**Preparation of inhibitor compounds, e.g. human microsomes for in vitro testing, by introducing thawed microsomes, cofactor and buffer into multiwell reaction plate, incubating the plate, and testing reaction products**

Patent Assignee: PFIZER INC (PFIZ); PFIZER PROD INC (PFIZ)

Inventor: EKINS S; JOHNSON D L; KELLY K G

Patent Family ( 4 patents, 28 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20010049092	A1	20011206	US 2000208213	P	20000531	200212	B
			US 2001858972	A	20010516		
EP 1164200	A2	20011219	EP 2001304627	A	20010525	200212	E
JP 2002022738	A	20020123	JP 2001160810	A	20010529	200222	E
US 6489094	B2	20021203	US 2001858972	A	20010516	200301	E

Priority Applications (no., kind, date): US 2000208213 P 20000531; US 2001858972 A 20010516

**Original Titles:**Method and device for **drug-drug** interaction testing sample **preparation** ... ..METHOD AND DEVICE FOR **MEDICINE-MEDICINE** INTERACTION TESTING SAMPLE **PREPARATION** ... ..Method and device for **drug-drug** interaction testing sample **preparation** ... ..Method and device for **drug-drug** interaction testing sample **preparation** Alerting Abstract ... ADVANTAGE - The method provides efficient time-coordinated **automated** method for **preparing** large number of **drug** candidate compounds for drug-drug interactions testing for viability within time constraints of material degradation.Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**A method and device for the **automated** large scale **preparation** for testing of **drug-drug** interactions, particularly **with determination** of IC50 and Ki, as a screening tool enhancement for determining viability of large numbers of compounds as drug candidates. Small

samples of specific probe...

25/3,K/14 (Item 12 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0010470710 *Drawing available*

WPI Acc no: 2001-070541/**200108**

Related WPI Acc No: 2001-024471

XRAM Acc no: C2001-019537

XRPX Acc No: N2001-053421

**Label printing assembly for use with a medicament dispensing control workstation comprises label print head; label supply assembly, label peeler assembly and control assembly**

Patent Assignee: SCRIPTPRO LLC (SCRI-N)

Inventor: GUERP L E; GUERRA L E; KUDERA K W; THOMAS T I

Patent Family ( 3 patents, 90 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000059730	A1	20001012	WO 2000US8424	A	20000329	200108	B
AU 200040492	A	20001023	AU 200040492	A	20000329	200108	E
US 6206590	B1	20010327	US 1999128429	P	19990405	200119	E
			US 2000538374	A	20000329		

Priority Applications (no., kind, date): US 1999128429 P 19990405; US 2000538374 A 20000329

Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**assembly (10) that effectively eliminates labeling errors caused by pharmacists placing the wrong prescription labels on medicine vials or packages. The label printing assembly is **preferably** configured for use with an **automated** medicament dispensing control workstation (11) and broadly includes a label print head (12), a label supply assembly (14), a label peeler assembly (16), and a... **Claims:**package; anda control assembly operatively coupled with the label peeler assembly for preventing the operator from retrieving one of the printed labels if the **printed** label is not **removed** from the printer assembly within a predetermined amount of time of being printed.Basic Derwent Week: **200108**

25/3,K/15 (Item 13 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0009563340 *Drawing available*

WPI Acc no: 1999-509917/**199943**

XRPX Acc No: N1999-380075

**Automatic dispensing machine is especially for use in dispensing chemists**

Patent Assignee: GEBR WILLACH GMBH (WILL-N)

Inventor: SCHMITT W; WILLACH U

Patent Family ( 5 patents, 25 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 29904863	U1	19990909	DE 29904863	U	19990317	199943	B
EP 1037179	A2	20000920	EP 1999124185	A	19991203	200047	E
EP 1037179	B1	20060322	EP 1999124185	A	19991203	200622	E
DE 59913250	G	20060511	DE 59913250	A	19991203	200632	E
			EP 1999124185	A	19991203		
ES 2260880	T3	20061101	EP 1999124185	A	19991203	200673	E

Priority Applications (no., kind, date): DE 29904863 U 19990317

**Alerting Abstract** ...DESCRIPTION OF DRAWINGS - The drawing shows a plan view of a dispensing **chemists** in which the **automatic** machine is installed... Original Publication Data by AuthorityArgentina**Publication No.** ...**Claims:**the shelving, and a transport device (50, 51) for transporting articles taken out of the shelving (20) by the manipulator from the shelving to a **dispensing** site (12, 13) **remote** from the shelving,**characterized in that** the transport device (50, 51) adjoins a dispensing side (32) other than the take-out side (24) and that... Basic Derwent Week: **199943**

25/3,K/16 (Item 14 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0009444862 *Drawing available*

WPI Acc no: 1999-383827/**199932**

XRPX Acc No: N1999-287326

**Computer controlled pharmaceutical dispensing system**

Patent Assignee: INNOVATION ASSOC INC (INNO-N)

Inventor: BOYER J H; BOYER J P

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5907493	A	19990525	US 1997792208	A	19970131	199932	B

Priority Applications (no., kind, date): US 1997792208 A 19970131

Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**each cell, wherever located, and for sequentially and interactively prompting an operator to perform appropriate; predetermined steps. The system for filling prescriptions sequentially prompts a **technician** or **operator** to **perform** predetermined **steps**, dependent upon verification of the completion of a prior or previously completed step in the sequence. In a semi-**automatic** mode, the **pharmacist** is directed, by **suitable** prompts on the computer display screen, as to the necessary steps and locations in filling each prescription. The main computer stores information of a plurality... Basic Derwent Week: **199932**

25/3,K/17 (Item 15 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0008944203

WPI Acc no: 1998-496050/**199842**

XRPX Acc No: N1998-387413

**Internet based method for organising and controlling drug studies - involves study centre having Internet server linking remote doctors sites and automatically managing study processes**

Patent Assignee: UNIV FLORIDA (UYFL)

Inventor: COLON M; CONLON M; COOPER-DEHOFF R M; HANDBERG-THURMOND E M; MARKS R G; PADGETT P; PEPINE C J

Patent Family ( 5 patents, 24 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998039720	A1	19980911	WO 1998US1632	A	19980129	199842	B
ZA 199801670	A	19981028	ZA 19981670	A	19980227	199848	E
AU 199860474	A	19980922	AU 199860474	A	19980129	199908	E
US 5991731	A	19991123	US 1997811446	A	19970303	200002	E
			US 1999241140	A	19990201		
EP 965095	A1	19991222	EP 1998903798	A	19980129	200004	E
			WO 1998US1632	A	19980129		

Priority Applications (no., kind, date): US 1997811446 A 19970303; US 1999241140 A 19990201

**...involves study centre having Internet server linking remote doctors sites and automatically managing study processes ... Alerting Abstract** ...provides the doctor with a drug strategy and the doctor can modify this within parameters. The selected drugs are then selected and posted by a **drug distribution** centre (55). On-line, real-time reports are available to the study centre and sponsor... **Title Terms** .../Index Terms/Additional Words: **AUTOMATIC**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts**:initial drug prescriptions, which can then be adjusted by the physician online. The final prescription is printed out for signature and sent electronically to a **drug distribution** center (55). **Study data** is maintained in a database in the host computer (11) behind a firewall provided in the Internet server computer (13... ... eligibility, randomization and initial prescriptions, which can then be adjusted by the physician online. The final prescription is printed out for signature and sent electronically to a **distribution** center (55). Study data is maintained in a database in the host computer (11) behind a firewall provided in the Internet server computer (13... ... initial drug prescriptions, which can then be adjusted by the physician online. The final prescription is printed out for signature and sent electronically to a **drug distribution** center (55). Study data is maintained in a database in the host **computer** (11) behind a firewall provided in the Internet server computer (13). **...Claims**:at a plurality of participating sites, each participating site having a computer for inputting, transmitting and receiving data over the Internet, said participating sites being **remote** from a study **management** site **for** managing the clinical study, the computer system comprising;a host computer including means for receiving identification, demographic and medical data about the subjects from the... Basic Derwent Week: **199842**

25/3,K/18 (Item 16 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0008293491 *Drawing available*

WPI Acc no: 1997-403537/**199738**

XRPX Acc No: N1997-335398

**Machine for handling syringes stored in trays in syringe filling process - has transfer unit with cavities and rotating pins to remove syringes from tray or replace them in tray, and matrix component which moves unit towards or away from tray**

Patent Assignee: BOSCH GMBH ROBERT (BOSC)

Inventor: GOETZELMANN B

Patent Family ( 9 patents, 19 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 19604100	A1	19970814	DE 19604100	A	19960206	199738	B
WO 1997029015	A1	19970814	WO 1997DE156	A	19970129	199738	E
DE 19604100	C2	19971218	DE 19604100	A	19960206	199803	E
EP 825949	A1	19980304	EP 1997907025	A	19970129	199813	E
			WO 1997DE156	A	19970129		
JP 11503991	W	19990406	JP 1997528038	A	19970129	199924	E
			WO 1997DE156	A	19970129		
US 5934859	A	19990810	WO 1997DE156	A	19970129	199938	E
			US 1997930788	A	19971006		
EP 825949	B1	20030416	EP 1997907025	A	19970129	200328	E
			WO 1997DE156	A	19970129		
DE 59709826	G	20030522	DE 59709826	A	19970129	200341	E
			EP 1997907025	A	19970129		
			WO 1997DE156	A	19970129		
JP 3983290	B2	20070926	JP 1997528038	A	19970129	200765	E
			WO 1997DE156	A	19970129		

Priority Applications (no., kind, date): DE 19604100 A 19960206

**Machine for handling syringes stored in trays in syringe filling process... Alerting Abstract**

...USE/ADVANTAGE - The machine is used to remove the syringes and transfer them to a cleaning and sterilisation device and then to a device for **filling the syringes** with e.g. medicine and sealing them, before returning them to the tray. Risk of damage to tray or syringes is reduced by the **automatic** transfer process. **Class**

Codes International Patent Classification IPC Class Level Scope Position Status Version Date ...**B25J-0009/00**...  
...**B25J-0009/00** ...**B25J-0009/00**... ...**B25J-0009/00** Original Publication Data by AuthorityArgentina**Publication**  
**No. ...Original Abstracts:**the advantage that the syringe bodies (2) are very carefully handled. In addition, the  
device (10, 10a, 10b) can advantageously be coupled to a handling **robot** (40, 40a, 40b... ... the invention has the  
advantage that the handling of the syringe bodies occurs very gently. Furthermore, the device can advantageously  
be coupled to a handling **robot**. ... ... the advantage that the syringe bodies (2) are very carefully handled. In  
addition, the device (10, 10a, 10b) can advantageously be coupled to a handling **robot** (40, 40a, 40b). Basic  
Derwent Week: **199738**

25/3,K/19 (Item 17 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0008144211 *Drawing available*

WPI Acc no: 1997-244839/**199722**

XRPX Acc No: N1997-201976

**Automatic dispensing system for pharmaceutical package gravity fed in columns - has barcode reader  
picking up code of dispensed package from column in storage bin controlled by delivery valves**

Patent Assignee: ADDS INC (ADDS-N); BERUBE A A (BERU-I); BOSSI D (BOSS-I); BOSSI E W (BOSS-I);  
HART B T (HART-I); HART R D (HART-I); LIFF H J (LIFF-I); TELEPHARMACY SOLUTIONS INC  
(TELE-N); WALLACE R L (WALL-I)

Inventor: BERUBE A A; BOSSI D; BOSSI E W; BOSSI L R B; HART B T; HART R D; LIFF H J; WALLACE  
R L; BOSSI L R D

Patent Family ( 24 patents, 21 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997014393	A1	19970424	WO 1996US16758	A	19961018	199722	B
US 5713485	A	19980203	US 1995544623	A	19951018	199812	E
EP 855894	A1	19980805	EP 1996936716	A	19961018	199835	E
			WO 1996US16758	A	19961018		
US 5797515	A	19980825	US 1995544623	A	19951018	199841	E
			US 1996642484	A	19960503		
US 6068156	A	20000530	US 1995544623	A	19951018	200033	E
			US 1996642484	A	19960503		
			WO 1996US16758	A	19961018		
			US 199858524	A	19980410		
US 6283322	B1	20010904	US 1995544623	A	19951018	200154	E
			US 1996642484	A	19960503		
			WO 1996US16758	A	19961018		
			US 199858524	A	19980410		
			US 2000515777	A	20000229		
US 20020070226	A1	20020613	US 1995544623	A	19951018	200243	E
			US 1996642484	A	19960503		
			WO 1996US16758	A	19961018		
			US 199858524	A	19980410		
			US 2000515777	A	20000229		
			US 2001945232	A	20010831		
US 20020100762	A1	20020801	US 1995544623	A	19951018	200253	E
			US 1996642484	A	19960503		
			WO 1996US16758	A	19961018		
			US 199858524	A	19980410		
			US 2000515777	A	20000229		
			US 2001945232	A	20010831		
			US 200293910	A	20020307		
EP 1226806	A2	20020731	EP 1996936716	A	19961018	200257	E
EPC3600 SEARCH RESULTS			EP 200275754	A	19961018	7/6/2009	
EP 855894	B1	20021002	EP 1996936716	A	19961018	200272	E

Priority Applications (no., kind, date): US 1995544623 A 19951018; US 1996642484 A 19960503; WO 1996US16758 A 19961018; US 199858524 A 19980410; US 2000515777 A 20000229; US 2001945232 A 20010831; US 200293910 A 20020307; US 2002280701 A 20021025; US 2002293087 A 20021113; US 2002315963 A 20021209; US 2003367484 A 20030214; US 2003412976 A 20030411; US 2004983829 A 20041108

ADVANTAGE - Provides convenient, safe, **automated**, and, low cost drug delivery system for patient at licensed practitioner's premises. **Title Terms** /Index Terms/Additional Words: **AUTOMATIC**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**An **automated drug dispensing** system includes a cabinet adapted to store a variety of prepackaged pharmaceuticals in a plurality of bins for **filling patient prescriptions**. Each bin stores a particular variety of packaged multiple-dose pharmaceutical. Each variety of pharmaceutical is associated with a particular code. A controller receives request signals and in response generates dispense signals. Each bin includes a dispenser coupled to the controller for **dispensing** the packaged **pharmaceuticals** therefrom in response to a dispense signal sent from the controller. After a package is dispensed, a code reader determines the code of the dispensed..... What is claimed:1. A system **for unattended** dispensing of **packaged** pharmaceuticals, comprising:a dispenser that stores a plurality of **packaged** pharmaceuticals, **the** dispenser including an electronic controller that receives request signals and generates dispense signals and a data entry device operatively linked to the dispenser for entering... .. signal when a corresponding match is identified; and a database operatively associated with the centralized control facility that stores information relating to at least one **authorized** prescription, **the** dispenser being operative, in response to entry of the patient information, to initiate dispensing by transmitting a signal representative of the patient information to the centralized control facility, such that **the dispenser** dispenses a **packaged** pharmaceutical corresponding with the prescription... .. What is claimed:1. A system **for** dispensing of **packaged** pharmaceuticals, comprising:a plurality of racks each having a plurality of columns, each rack being slideably mounted in a housing;each column receiving a plurality of **packaged** pharmaceuticals;a dispensing mechanism for each of the columns; and a control system for individually addressing each of the dispensing mechanism **for** dispensing a **packaged** pharmaceutical... ..

25/3,K/20 (Item 18 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0007904354

WPI Acc no: 1996-354353/**199635**

XRAM Acc no: C1996-111632

XRPX Acc No: N1996-298840

**Solid phase synthesis of organic cpds., e.g. peptide from aminoacid - using computer, robot and timing protocol so that certain steps in synthesis cycle are carried out concurrently**

Patent Assignee: AVENTIS PHARM INC (AVET); SELECTIDE CORP (SELE-N)

Inventor: KRCHNAK V; LEBL M; SELIGMANN B

Patent Family ( 12 patents, 71 countries )



Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1996022157	A1	19960725	WO 1996US1168	A	19960119	199635	B
AU 199649671	A	19960807	AU 199649671	A	19960119	199646	E
ZA 199600447	A	19961231	ZA 1996447	A	19960119	199707	E
US 5614608	A	19970325	US 1995375879	A	19950120	199718	E
EP 804281	A1	19971105	EP 1996906212	A	19960119	199749	E
			WO 1996US1168	A	19960119		
AU 687670	B	19980226	AU 199649671	A	19960119	199821	E
JP 10512866	W	19981208	JP 1996522457	A	19960119	199908	E
			WO 1996US1168	A	19960119		
IL 116837	A	20000229	IL 116837	A	19960119	200029	E
EP 804281	B1	20020605	EP 1996906212	A	19960119	200238	E
			WO 1996US1168	A	19960119		
TW 457130	A	20011001	TW 1996101912	A	19960215	200243	E
DE 69621592	E	20020711	DE 69621592	A	19960119	200253	E
			EP 1996906212	A	19960119		
			WO 1996US1168	A	19960119		
ES 2177766	T3	20021216	EP 1996906212	A	19960119	200306	E

Priority Applications (no., kind, date): US 1995375879 A 19950120

**using computer, robot and timing protocol so that certain steps in synthesis cycle are carried out concurrently Alerting Abstract** ...steps. The system comprises (a) a computer for processing a programme of instructions for predetermined synthetic cycles for the synthesis of each species; (b) an **automated robot** responsive to the computer, which causes the synthesis steps to be performed in accordance with the synthetic cycles; and (c) a timing protocol, implemented by... Also claimed is a process for the **automated SPS** comprising: (a) initiating a synthetic step in a synthetic cycle of a species, (b) determining if the time for the synthetic step of (a... **Documentation Abstract** ...b) an **automated robot** responsive to the computer, which causes the synthesis steps to be performed in accordance with the synthetic cycles; and... A) a process for the **automated SPS** comprising... B) a process for the **automated SPS** of multiple species of organic cpds. formed by repeated synthetic cycles of synthetic steps, comprising... a) and (b) as above, where the **robot** is operatively coupled to the sets of **syringes** for aspirating and **dispensing** reagents, and the synthetic steps include washing, adding deprotection reagents, deprotection, adding coupling reagents and coupling. The synthesis cycles are performed in accordance with a... 1) **filling** a first set of **syringes**, each with a resin solid support... 2) **filling** a second set of **syringes**, each with a desired amino acid... **Documentation Abstract Image Title Terms** .../Index

Terms/Additional Words: **ROBOT**; Class Codes International Patent Classification IPC Class Level Scope  
Position Status Version Date "Version 7" ...**B25J-0009/16** ...**B25J-0009/16** Original Publication Data by  
AuthorityArgentina**Publication No. Original Abstracts:**A solid phase synthesis system is provided by  
employing a fully **automated robot** (20) that **operates with** a novel timing protocol executed by a computer (25)  
for handling multiple synthetic tasks efficiently. The fully **automated robot** (20) moves **along a track** (35) and is  
equipped with a gripper arm (30) which can pick up, position, and operate syringes (40, 60) which can contain  
solid supports... ... A solid phase synthesis system is provided by employing a fully **automated robot** that  
operates with a novel timing protocol **for handling** multiple synthetic tasks efficiently. The novel timing protocol  
is realized by performing steps in the synthesis cycles for different compounds, such as peptides, concurrently  
rather... ... A solid phase synthesis system is provided by employing a fully **automated robot** (20) that operates  
with a novel timing protocol executed by a computer (**25**) **for** handling multiple synthetic tasks efficiently. The  
fully **automated robot** (20) moves along a track (35) and is equipped with a gripper **arm (30)** which can pick up,  
position, and operate syringes (40, 60) which can contain solid supports and amino acid reactants. The novel  
timing protocol is realized... ...**Claims:**steps. The system comprises (a) a computer for processing a programme of  
instructions for predetermined synthetic cycles for the synthesis of each species; (b) an **automated robot**  
responsive to the computer, which causes the synthesis steps to be performed in accordance with the synthetic  
cycles; and (c) a timing protocol, implemented by... ... Also claimed is a process for the **automated SPS**  
comprising: (a) initiating a synthetic step in a synthetic cycle of a species, (b) determining if the time for the  
synthetic step of (a... ... system comprising:a computer for processing a program of instructions correlated to  
predetermined synthetic cycles for the synthesis of each of said multiple species;an **automated robot** responsive  
to said computer, said **automated robot** operative to cause said synthetic steps to be performed **in accordance**  
with the synthetic cycles of **each of** said multiple species; anda timing protocol, implemented by said program of  
instructions and executed by said computer, for directing synthetic steps of at least... ... two different species is  
sufficient for initiating a synthetic step in the synthetic cycle of another of said at least two different species,

25/3,K/21 (Item 19 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0007890900

WPI Acc no: 1996-067582/**199607**

Related WPI Acc No: 1996-067566

XRPX Acc No: N1996-056853

**Automated dispensing system for pharmaceutical products - is operated directly by doctors via remote terminal on a computer network, linked to number of dispensaries**

Patent Assignee: CONSUMER HEALTH ENTREPRENEURS BV (CONS-N); MEDIMAAT BV (MEDI-N)

Inventor: SCHAAP C W; SCHAAP C W H; SCHOONEN A J; SCHOONEN A J M

Patent Family ( 15 patents, 24 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
NL 199402206	A	19960102	NL 19942206	A	19941223	199607	B
AU 199525800	A	19951009	AU 199525800	A	19950609	199607	E
WO 1995025423	A2	19950928	WO 1995NL204	A	19950609	199607	E
NL 1000542	C2	19950818	NL 1000542	A	19950609	199608	E
WO 1995025423	A3	19951019	WO 1995NL204	A	19950609	199621	E
EP 764314	A1	19970326	EP 1995920306	A	19950609	199717	E
			WO 1995NL204	A	19950609		
AU 684962	B	19980108	AU 199525800	A	19950609	199810	E
JP 10500789	W	19980120	JP 1995524561	A	19950609	199813	E
			WO 1995NL204	A	19950609		
NZ 287163	A	19980527	NZ 287163	A	19950609	199827	E
			WO 1995NL204	A	19950609		
EP 764314	B1	19990915	EP 1995920306	A	19950609	199942	E
			WO 1995NL204	A	19950609		
DE 69512235	E	19991021	DE 69512235	A	19950609	199950	E
			EP 1995920306	A	19950609		
			WO 1995NL204	A	19950609		
ES 2139211	T3	20000201	EP 1995920306	A	19950609	200013	E
US 6152364	A	20001128	WO 1995NL204	A	19950609	200063	E
			US 1997750354	A	19970206		
US 6352200	B1	20020305	WO 1995NL204	A	19950609	200224	E
			US 1997750354	A	19970206		
			US 2000689623	A	20001013		
CA 2192352	C	20080226	CA 2192352	A	19950609	200819	E
			WO 1995NL204	A	19950609		

Priority Applications (no., kind, date): NL 1994941 A 19940609; NL 19942206 A 19941223

**Automated dispensing system for pharmaceutical products... ..is operated directly by doctors via remote terminal on a computer network, linked to number of dispensaries ...Original Titles:**MEDICAMENT DISTRIBUTION SYSTEM AND **AUTOMATIC DISPENSER FOR SUCH SYSTEM...** ...MEDICAMENT DISTRIBUTION SYSTEM AND **AUTOMATIC DISPENSER FOR SUCH SYSTEM...** ...Medicament distribution system and **automatic** dispenser for such system... ..Medicament distribution system and **automatic** dispenser for such system... ..MEDICAMENT DISTRIBUTION SYSTEM AND **AUTOMATIC DISPENSER FOR SUCH SYSTEM** **Documentation Abstract** ...doctor to enter prescription and patient information and outputting to a pharmacy computer (2) which processes the data and outputs a control signal to an **automatic** medicament dispenser (8... ..of a patient and this is compared with the identity associated with the prescription entered. The comparison may be made by the computer or the **dispenser**, and the **prescription** is **dispensed** only if the identities correspond. The dispenser may have a reader for patient cards to determine identity...

**Documentation Abstract Image Title Terms /Index Terms/Additional Words:** **AUTOMATIC**; **Class Codes** Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**the input unit and generates a control signal corresponding to the prescription. Under the supply of the control signal generated by the pharmacy computer, an **automatic** dispenser dispenses the described medicament to the patient... .. the input unit and generates a control signal corresponding to the prescription. Under the supply of the control signal generated by the pharmacy computer, an **automatic** dispenser dispenses the described medicament to the patient... .. the input unit and generates a control signal corresponding to the prescription. Under the supervision of the control signal generated by the pharmacy computer, an **automatic** dispenser dispenses the prescribed medicament to the patient... .. the input unit and generates a control signal corresponding to the prescription. Under the supply of the control signal generated by the pharmacy computer, an **automatic** dispenser dispenses the described medicament to the patient. ...**Claims:**unit (4, 4') with which a doctor is capable of entering inter alia a prescription of a medicament for a patient and at least one **automatic** dispenser which is suitable for being loaded with medicaments, characterized in that the prescription of a medicament for a patient, can be entered into the... .. 2) further processes the prescription signal received from the input unit and generates a control signal corresponding to the prescription wherein the at least one **automatic** dispenser (8, 8') dispenses the prescribed medicament under the supply of the control signal generated by the pharmacy computer (2) and wherein the **automatic** dispenser (8, 8') and the pharmacy computer are accommodated in housings different from each other... .. suggesting, prescribing, and delivering system for prescribing and delivering medicaments to a patient, said system comprising at least one input unit and at least one **automatic** dispenser which can be loaded with medicaments, wherein the input unit comprises a data bank in which is stored data of a patient as well as signal corresponding to the prescription, the at least one **automatic** dispenser then dispensing the prescribed medicament under the control of the control signal generated by the pharmacy computer, whereby the **doctor** can **interactively** select and prescribe a medicament for a patient selected from said list of suggested medicaments at a first location and the patient can automatically receive... .. in the data bank and generate a prescription signal corresponding to the prescription that has been entered;d) having said pharmacy computer, under the independent **control** of a **pharmacist**, process the prescription signal received from the input unit and generate a control signal corresponding to the prescription; and e) having said at least one **automatic** dispenser dispense the prescribed medicament based on the control signal generated by the pharmacy computer... .. system comprising at least one input with which a doctor selects and enters a prescription for a medicament for a patient and at least one **automatic** dispenser which is capable of being loaded with medicaments, wherein the prescription for a medicament for a patient is selected using the input unit and... .. pharmacy computer further processing the prescription signal received from the input unit and generating a control signal corresponding to the prescription, the at least one **automatic** dispenser then dispensing the prescribed medicament under the control of the control signal generated by the pharmacy computer, whereby the doctor is able to prescribe... Basic Derwent Week: 199607

25/3,K/22 (Item 20 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
(c) 2009 Thomson Reuters. All rights reserved.

0007457818

WPI Acc no: 1996-067566/**199607**

Related WPI Acc No: 1996-067582

XRPX Acc No: N1996-056837

**Automated dispensing system for pharmaceutical products - is operated directly by doctors via remote terminal on a computer network, linked to number of dispensaries**

Patent Assignee: CONSUMER HEALTH ENTREPRENEURS BV (CONS-N); MEDIMAAT BV (MEDI-N)

Inventor: SCHAAP C W H; SCHOONEN A J M

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
NL 199400941	A	19960102	NL 1994941	A	19940609	199607	B

Priority Applications (no., kind, date): NL 1994941 A 19940609

**Automated dispensing system for pharmaceutical products... ..is operated directly by doctors via remote terminal on a computer network, linked to number of dispensaries** Alerting Abstract ...In each dispensary, prepacked **medicines** from a store are selected, checked by a bar code reader and labelled by a printer. The patient presents a personal identification card to another code reader and receives the appropriate prescribed **medicine**. The **dispenser** has display and keyboard facilities at the central computer... **Title Terms** /Index Terms/Additional Words: **AUTOMATIC**; **Class Codes** ... ..

25/3,K/23 (Item 21 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
(c) 2009 Thomson Reuters. All rights reserved.

0005773961 *Drawing available*

WPI Acc no: 1991-275152/**199138**

XRAM Acc no: C1991-119225

XRPX Acc No: N1991-210180

**Grain cargo metering and dispensing system - using dispensing and inventory operation and metering control microcomputer systems**

Patent Assignee: FU KUAN C (KUAN-I); KUAN C (KUAN-I); KUAN C F (KUAN-I)

Inventor: FU KUAN C; KUAN C; KUAN C F

Patent Family ( 7 patents, 14 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 446398	A	19910918	EP 1990104948	A	19900316	199138	B
CN 1054912	A	19911002	CN 1990109682	A	19901129	199227	E
US 5245548	A	19930914	US 1990613202	A	19901114	199338	E
EP 446398	B1	19931027	EP 1990104948	A	19900316	199343	E
DE 69004246	E	19931202	DE 69004246	A	19900316	199349	E
			EP 1990104948	A	19900316		
ES 2046566	T3	19940201	EP 1990104948	A	19900316	199409	E
CN 1024260	C	19940420	CN 1990109682	A	19901129	199527	E

Priority Applications (no., kind, date): EP 1990104948 A 19900316

**Original Titles:**Automatic metering and dispensing system for powder material... ...Automatic metering and dispensing system for powder material... ...Grain cargo **automatic** metering and dispensing system **Alerting Abstract** ...data stored therein. The metering control microcomputer controls an electric control unit to start, control and stop all operations of the system, while a radio **remote control** system forms an auxiliary signal input device to replace key-in operation of the microcomputers... ...USE/ADVANTAGE - Partic. in chemical reprocessing factories to dispense grained or powdered materials according to a **prescription**. Provides fully **automatic dispensing** of powdered or granular materials accurately and rapidly without the operator being subjected to flying dust, etc. @ (12pp Dwg.No.3/6)@ **Equivalent Alerting Abstract** ...Grain cargo **automatic** metering and dispensing system comprises a material induction and storage system (1), feeding system (2) empty container take-up and discharge system (3), a container... ...4), a conveyor system (5), a metering control microcomputer system (6), electrical control unit (7), dispensing and inventory operation microcomputer system (8) and a radio **remote control** system (9 ... ...ADVANTAGE - Accurate **control**, eliminating **human** error.

25/3,K/24 (Item 22 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0005616074 *Drawing available*

WPI Acc no: 1991-224756/**199131**

Related WPI Acc No: 1996-009918; 1999-204098; 1997-099245

XRPX Acc No: N1991-171569

**System for filling order i.e. at chemists or pharmacy - has packages each with same type of contents held in predetermined location and dispenser for each separate location**

Patent Assignee: AUTOM HEALTHCARE (AUTO-N); AUTOMATED HEALTHCARE INC (AUTO-N); MCDONALD S C (MCDO-I)

Inventor: HERTZ E J; MCDONALD S C; SMITH J A; TOTO G

Patent Family ( 5 patents, 5 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 439355	A	19910731	EP 1991300543	A	19910124	199131	B
CA 2034813	A	19910725	CA 2034813	A	19910123	199237	E
EP 439355	B1	19940928	EP 1991300543	A	19910124	199437	E
DE 69104236	E	19941103	DE 69104236	A	19910124	199443	E
			EP 1991300543	A	19910124		
CA 2034813	C	20010424	CA 2034813	A	19910123	200128	E

Priority Applications (no., kind, date): US 1990469217 A 19900124

**Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**B25J-0015/06** ...**B25J-0015/06** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** A system for **filling** orders, such as **prescriptions** for patients, comprising a device for holding packages. Each package has the same type of contents being held in a predetermined location by the holding... **Claims:**being sized and configured to hold at least one package (14) and each location having a distinct x, y coordinate, the system furthermore comprising (a) **automated** picking means (38) sized and configured to be able to hold packages (14), to select packages from the storage area locations and to place packages in the storage area (12a, 12b) locations in accordance with instructions received from a computer (24), the **automated** picking means (38) having means (50) for attaching to and moving individual packages (14); and (b) a computer (24) having at least one memory which contains a program for directing the **automated** picking means (38) to chosen storage area locations (12a, 12b) and a database containing at least one distinct x, y coordinate location in the storage... ... sized and stored in a manner so that the packages (14) can be placed into and removed from the storage area (12a, 12b) by the **automated** picking means (38); wherein each individual package (14) has a machine readable label (16); and wherein the system also includes a package reader (26) associated with the **automated** picking means (38) for reading the label (16). Basic Derwent Week: **199131**

## B. Patent Files, Full-Text

**File 348:EUROPEAN PATENTS 1978-200927**

(c) 2009 European Patent Office

**File 349:PCT FULLTEXT 1979-2009/UB=20090702|UT=20090625**

(c) 2009 WIPO/Thomson

Set	Items	Description
S1	446971	(ROBOT? ? OR ROBOTIC? OR ROBO OR AUTOMAT??? OR ROBOPHARM? - OR TELEPHARMAC?)
S2	131040	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT? ? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMAECEUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) ( ) (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS OR PATIENT? ? (-) CASSETTE? ?)
S3	109	(VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED? OR MEC-

HANICAL OR MECHANIZED OR SELF()SERVICE OR AUTOMAT???) (5N) (PHARMACIST? ? OR PHARMAECIST? ? OR PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMD OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC? OR TELEPHARMAC?)

S4 33729 ("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED - OR LOCATED) OR UNATTENDED OR UNSUPERVISED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") (1W) (SUPERVISI?? OR OVERSIGHT OR - DIRECTION? ? OR PHARMACIST? ? OR PHARMAECIST? ? OR CHEMIST? ?)

S5 73 S4 (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR PHARMACY()TECH? ? OR PHYSICIAN? ?)

S6 258638 (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR - OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT???)

S7 95157 (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? - OR PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR INTERACT?????)

S8 2931 S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))

S9 7 (ROBOT? ? OR ROBOTIC OR ROBO) (5N) (PHARMA?) (10N) (FILL??? OR PREPARE? ? OR PREPARING) (5N) (PRESCRIPTION? ?)

S10 7345 IC=B25J

S11 788 S1 (8N) S2

S12 0 S11 (15N) S5

S13 1 S11 (15N) S4

S14 1 S11 (15N) S8

S15 26 S11 (20N) S6

S16 0 S15 (20N) S7

S17 4 S15 AND S4

S18 0 S3 (15N) S8

S19 8 S3 (15N) S7

S20 1 S3 (10N) S6

S21 0 S5 AND S10

S22 2 S11 AND S10

S23 17 S2 AND S10

S24 8 S23 AND S6

S25 30 S9 OR S13 OR S14 OR S17 OR S19 OR S20 OR S22 OR S24

S26 7 S25 AND PY=1978:2001

S27 13 S25 AND ((AC=US OR AC=US/PR) AND AY=1978:2001)

S28 13 S26 OR S27

28/3K/1 (Item 1 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

(c) 2009 European Patent Office. All rights reserved.

02165828

**Apparatus and methods for parallel processing of multiple reaction mixtures**

**Patent Assignee:**



**Symyx Technologies, Inc.;** (2846640)

3100 Central Expressway; Santa Clara, CA 95051; (US)

(Applicant designated States: all)

	Country	Number	Kind	Date	
Patent	EP	1724011	A2	20061122	(Basic)
	EP	1724011	A3	20061220	
Application	EP	2006006947		20020121	
Priorities	US	772101		20010126	
	US	40988		20020107	

**Specification:** ...surface defining a flow passage through the needle, a proximal end, a distal end, and a port adjacent but spaced from the distal end and **directed** laterally **away** from the longitudinal axis for the transfer of said fluid materials to and from the needle. The cannula further comprises an adapter for connecting the... ...an inside surface defining a flow passage through the needle, a proximal end, a distal end, and a port spaced from the distal end and **directed** laterally **away** from the longitudinal axis of the needle for the transfer of fluid materials to and from the needle. The cannula also includes an adapter comprising...altering the vortexing and allows aspiration of substantially homogeneous slurry without selectivity. While the cannula is paused above the rim of the mixing vial, the **syringe** pump is **filled** wi

28/3K/3 (Item 3 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

(c) 2009 European Patent Office. All rights reserved.

01730226

**A method of automatically filling a prescription**

**Patent Assignee:**

**McKesson Automated Prescription Systems, Inc.;** (2784710)

4222 Shreveport Highway; Pineville, LA 71360; (US)

(Applicant designated States: all)

**Inventor:**

**Williams, Jeffrey P.**

304 Hardscrabble Drive; Hillsborough, NC 27278; (US)

**Dolores, Allan**

190 Hidden Lakes Drive; Carrollton GA 30116; (US)

**Potepalou, Galina**

2959 Rigolette Road; Pineville LA 71369; (US)

**Bergeron, Michael**

4312 Overview Road; Pineville LA 71360; (US)

**Legal Representative:**

**Harrison Goddard Foote (101451)**

Belgrave Hall Belgrave Street; Leeds LS2 8DD; (GB)

	Country	Number	Kind	Date	
Patent	EP	1416451	A2	20040506	(Basic)
	EP	1416451	A3	20041110	
Application	EP	2004001159		19981207	
Priorities	US	986247		19971205	
	US	986665		19971208	
	US	205246		19981204	

**Specification:** ...for storing a plurality of bulk containers. Each respective container contains and stores a bulk quantity (e.g., 100 to 2000 pills) of a selected **pharmaceutical** to be dispensed.

A **robotic**, computer controlled arm is used to grasp a selected one of the containers that has the correct pills for the **prescription** to be **filled**.

The selected container is then removed from its receptacle with the **robot** arm and then placed by the **robot** arm on a counter/dispenser.

Pills are then dispensed in a correct number from the container by the counter and into a pill bottle that...

28/3K/5 (Item 5 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

(c) 2009 European Patent Office. All rights reserved.

00361856

**Kit for preparing blister packages.**

Baukasten zur Herstellung von Blisterverpackungen.

Kit pour preparer des emballages en blister.

**Patent Assignee:**

**MINNESOTA MINING AND MANUFACTURING COMPANY;** (300410)

3M Center, P.O. Box 33427; St. Paul, Minnesota 55133-3427; (US)

(applicant designated states: DE;ES;FR;GB;IT)

**Inventor:**

**Harrison, John A. c/o Minnesota Mining and**

Manufacturing Co. 2501 Hudson Road P.O. Box 33427; St. Paul Minnesota 55133-3427; (US)

**Isakson, Gary A. c/o Minnesota Mining and**

Manufacturing Co. 2501 Hudson Road P.O. Box 33427; St. Paul Minnesota 55133-3427; (US)

**Nelson, James R. c/o Minnesota Mining and**

Manufacturing Co. 2501 Hudson Road P.O. Box 33427; St. Paul Minnesota 55133-3427; (US)

**Legal Representative:**

**Baillie, Iain Cameron et al (27951)**

c/o Ladas & Parry Altheimer Eck 2; D-80331 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	329462	A2	19890823	(Basic)
	EP	329462	A3	19900613	
	EP	329462	B1	19931208	
Application	EP	89301549		19890217	
Priorities	US	156985		19880218	

**Specification:** ...Nos. 4,526,474 and 4,534,468. Although these packages are useful, they generally require packaging by means of trained personnel, e.g. a **pharmacist**, or **automated equipment operated by trained personnel**. EP-A-0,193,295 discloses a blister package comprising a tray having at least one cavity formed therein, a sheet adhered to said tray, said sheet...

28/3K/6 (Item 1 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

01114358

## **SYSTEMS AND METHODS FOR DISPENSING MEDICAL PRODUCTS**

## **SYSTEMES ET PROCEDES DE DISTRIBUTION DE PRODUITS MEDICAUX**

### **Patent Applicant/Patent Assignee:**

**TELEPHARMACY SOLUTIONS INC;** 267 Boston Road, Suite 27, North Billerica, MA 01862

US; US(Residence); US(Nationality)

(For all designated states except: US)

### **Patent Applicant/Inventor:**

**HART Brian**

One Sibley Drive, Bedford, MA 01730; US; US(Residence); US(Nationality); (Designated only for: US)

**HART Richard D**

2610 Cheyenne Street, Irving, TX 75062; US; US(Residence); US(Nationality); (Designated only for: US)

**BERUBE Arthur A**

13 Sherry Lane, Hampstead, NH 03841; US; US(Residence); US(Nationality); (Designated only for: US)

**LIFF Harold J**

19 Douglas Road, Lexington, MA 02421; US; US(Residence); US(Nationality); (Designated only for: US)

**DOWLING James**

281 Mason Road, Milford, NH 03055; US; US(Residence); US(Nationality); (Designated only for: US)

**PIANTEDOSI Steve**

42 Olde Colonial Drive, Gardner, MA 01440; US; US(Residence); US(Nationality); (Designated only for: US)

**STOUT Scott G**

3 Jeridge Lane, Chelmsford, MA 01824; US; US(Residence); US(Nationality); (Designated only for: US)

### **Legal Representative:**

**HOOVER Thomas O(et al)(agent)**

Bowditch & Dewey, LLP, 161 Worcester Road, P.O. Box 9320, Framingham, MA 01701-9320; US;

	Country	Number	Kind	Date
Patent	WO	200436479	A2-A3	20040429
Application	WO	2003US32668		20031016
Priorities	US	2002272516		20021016

A preferred embodiment of the present invention is directed to an apparatus and method for **automated** dispensing of packaged and non-packaged **pharmaceuticals**. The **remote control dispenser** system of the invention includes a centralized computer network in conjunction with product release at a remote location. The centralized network communicates with the remote...can result in faster recovery.

The apparatus of a preferred embodiment of the invention will now be described. Figure 1A is a diagram of an **automated drug dispensing** system in accordance with the present invention. The primary components of the system include a **remote control dispenser** (RCD) cabinet 20, a host computer 46, a modem 52, a document printer 56, and a label printer 54. The cabinet 20 includes a rack...is present in the database, the user will be allowed to proceed and can receive his requested medication. Conversely, if the user's information is **not located** in the database, the user will not be able to proceed within the system or receive any medication. A dispenser 1650 can include either the...

28/3K/7 (Item 2 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

01006987

**A NOVEL PHARMACEUTICAL COMPOUND CONTAINING ABACAVIR SULFATE AND METHODS OF MAKING AND USING SAME**

NOUVEAU COMPOSE PHARMACEUTIQUE CONTENANT DU SULFATE D'ABACAVIR ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES

**Patent Applicant/Patent Assignee:**

**NEW RIVER PHARMACEUTICALS INC;** The Governor Tyler, 1902 Downey Street, Radford, VA 24060

US; US(Residence); US(Nationality)

(For all designated states except: US)

**PICARIELLO Thomas;** 203 Murphy Street, N.E., Blacksburg, VA 24060

US; US(Residence); US(Nationality)

**Patent Applicant/Inventor:**

**PICARIELLO Thomas**

203 Murphy Street, N.E., Blacksburg, VA 24060; US; US(Residence); US(Nationality);

**Legal Representative:**

**SCHULMAN Robert M(et al)(agent)**

Intellectual Property Department, Hunton & Williams, 1900 K Street, N.W., Suite 1200, Washington, DC 20006-1109; US;

Country Number Kind Date Patent WO 200334980 A2 20030501

Application WO 2001US43089 20011114

Priorities US 2000274622 20001114

**Claims:**

...Polar amino acids, on the other hand, can be selected to increase the hydrophilicity of the polypeptide. Ionizing amino acids can be selected for **pH controlled** peptide unfolding. Aspartic acid, glutamic acid and tyrosine carry a neutral charge in the stomach, but will ionize upon entry into the intestine. Conversely, basic...

28/3K/8 (Item 3 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00824017

**STRUCTURE IDENTIFICATION METHODS USING MASS MEASUREMENTS**

PROCEDES D'IDENTIFICATION DE STRUCTURES UTILISANT DES MESURES DE MASSE

**Patent Applicant/Patent Assignee:**

**NANOSCALE COMBINATORIAL SYNTHESIS INC;** 625 Clyde Avenue, Mountain View, CA 94043

US; US(Residence); US(Nationality)

(For all designated states except: US)

**SEPETOV Nikolai F;** 14800 Old Japanese Road, Los Gatos, CA 95033

US; US(Residence); RU(Nationality)

(Designated only for: US)

**ISSAKOVA Olga L;** 14800 Old Japanese Road, Los Gatos, CA 95033

US; US(Residence); RU(Nationality)

(Designated only for: US)

**Patent Applicant/Inventor:**

**SEPETOV Nikolai F**

14800 Old Japanese Road, Los Gatos, CA 95033; US; US(Residence); RU(Nationality); (Designated only for: US)

**ISSAKOVA Olga L**

14800 Old Japanese Road, Los Gatos, CA 95033; US; US(Residence); RU(Nationality); (Designated only for: US)

**Legal Representative:**

**QUINE Jonathan Alan(et al)(agent)**

The Law Offices of Jonathan Alan Quine, P.O. Box 458, Alameda, CA 94501; US;

	Country	Number	Kind	Date
Patent	WO	200157523	A1	<b>20010809</b>
Application	WO	2001US3487		20010202
Priorities	US	2000180111		20000203
	US	2000180112		20000203

	US	2000180115		20000203
	US	2000188937		20000310

#### Claims:

...arrays," American Pharmaceutical Review 3:63-68, North (2000) "Implernentation of analytical technologies in a pharmaceutical development organization-looking into the next millennium," Journal of **Automated** Methods and **Management in Chemistr** 22:41-45, and Keifer et al. (2000) "Directinjection NMR (DI-NMR): A flow NMR technique for the analysis of combinatorial chemistry libraries," Journal of...

28/3K/9 (Item 4 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00800875

#### MANIPULATOR

#### MANIPULATEUR

#### Patent Applicant/Patent Assignee:

**MICRODEXTERITY SYSTEMS INC**; Suite 190, 6401 Poplar Avenue, Memphis, TN 38119

US; US(Residence); US(Nationality)

#### Legal Representative:

**BAYS Gregory C(agent)**

Leydig, Voit & Mayer, Ltd., Two Prudential Plaza, Suite 4900, 180 North Stetson, Chicago, IL 60601-6780; US;

	Country	Number	Kind	Date
Patent	WO	200134017	A2-A3	<b>20010517</b>
Application	WO	2000US30885		20001109
Priorities	US	99165046		19991112

#### English Abstract:

A **manipulator** for producing a **remote** center of revolute motion is provided. A tool holder is pivotally connected to the first connector link by a first pivot joint and pivotally connected...

#### Detailed Description:

...employed. For example, the drive unit 420 may be rotatable by -3 ) 60' around the pitch axis.

In some situations, it may be convenient to **dispense** a **drug** or other substance to a patient during use of the needle 412. Therefore, the cartridge 414 may be equipped with one or more devices for...

#### Claims:

1 A **manipulator** for producing a **remote** center of revolute motion comprising:a base,a first parallelogram linkage mechanism including a first link pivotallymounted to the base for rotation about a ...injector.

46 The tool holding apparatus according to claim 31 wherein the

1 5 cartridge is adapted to release a tool after positioning.

47 A **manipulator** for producing a **remote** center of motion comprising:

a base,a parallelogram linkage mechanism including a first link pivotally connected to the base at a first pivot point for...

28/3K/10 (Item 5 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00787963

## **SYSTEMS AND METHODS FOR DRUG DISPENSING**

## **SYSTEMES ET PROCEDES DE DISTRIBUTION DE MEDICAMENTS**

### **Patent Applicant/Patent Assignee:**

**TELEPHARMACY SOLUTIONS INCORPORATED**; 85 Rangeway Road, North Billerica, MA 01862

US; US(Residence); US(Nationality)

(For all designated states except: US)

### **Patent Applicant/Inventor:**

**WALLACE Robert L**

170 Heald Street, Pepperell, MA 01463; US; US(Residence); US(Nationality); (Designated only for: US)

**HART Brian T**

One Sibley Drive, Bedford, MA 01730; US; US(Residence); US(Nationality); (Designated only for: US)

**HART Richard D**

2610 Cheyenne Street, Irving, TX 75062; US; US(Residence); US(Nationality); (Designated only for: US)

**BERUBE Arthur A**

13 Sherry Lane, Hampstead, NH 03841; US; US(Residence); US(Nationality); (Designated only for: US)

**LIFF Harold J**

19 Douglas Road, Lexington, MA 02421; US; US(Residence); US(Nationality); (Designated only for: US)

**BUCIUMAN-COMAN Liana**

176 Hall Street, Leominster, MA 01453; US; US(Residence); US(Nationality); (Designated only for: US)

**DOWLING James**

281 Mason Road, Milford, NH 03055; US; US(Residence); US(Nationality); (Designated only for: US)

### **Legal Representative:**

**PIERCE Scott N(et al)(agent)**

Hamilton, Brook, Smith & Reynolds, P.C., 530 Virginia Road, P.O. Box 9133, Concord, MA 01742-9133; US;

	Country	Number	Kind	Date
Patent	WO	200121131	A2-A3	<b>20010329</b>
Application	WO	2000US26170		20000922

Priorities	US	99155446		19990922
	US	99454359		19991203

#### Detailed Description:

...automated, and low cost drug delivery system for the patient.

A preferred embodiment of the present invention is directed to an apparatus and method for **automated** dispensing of packaged and non-packaged **pharmaceuticals**. The **remote control dispenser** system of the invention includes a centralized computer network in con unction with product release at a remote location. The centralized network communicates with the... recovery.

#### SUBSTITUTE SHEET (RULE 26)

The apparatus of a preferred embodiment of the invention will now be described. Figure IA is a diagram of an **automated drug dispensing** system in accordance with the present invention. The primary components of the system include a **remote control dispenser** (RCD) cabinet 20, a host computer 46, a modem 52, a document printer 56, and a label printer 54. The cabinet 20 includes a rack...which communicates with the communications port (COMM PORT) of a workstation 340 and thereby the electronics in the RCD 324, This activates automatically in an **unattended** fashion, effectively like a batch file running.

A second method to dispense a drug from the RCD 324 using the Internet includes direct communications between...is present in the database, the user will be allowed to proceed and can receive his requested medication. Conversely, if the user's information is **not located** in the database, the user will not be able to proceed within the system or receive any medication. A dispenser 1650 can include either the...

28/3K/11 (Item 6 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00739283

#### INDEPENDENT COUNTING UNIT

UNITE DE COMPTAGE INDEPENDANTE

#### Patent Applicant/Patent Assignee:

**SCRIPTPRO LLC**; 5828 Reeds Road, Mission, KS 66202

US; US(Residence); US(Nationality)

#### Legal Representative:

**LUEBBERING Thomas B**

Hovey, Williams, Timmons & Collins, Suite 400, 2405 Grand Boulevard, Kansas City, MO 64108; US;

	Country	Number	Kind	Date
Patent	WO	200052653	A1	<b>20000908</b>
Application	WO	2000US5745		20000302
Priorities	US	99123528		19990302
	US	2000514600		20000228



**Detailed Description:**

...medicament therefrom. Once a vial has been filled, the transporter/manipulator places the filled vial on a conveyor for labeling and subsequent inspection by a **pharmacist** or other **operator**.

While the **automatic** medicament dispensing machine disclosed in the '919

patent dramatically increases the accuracy and speed at which medicaments are dispensed, its overall speed or throughput is...

28/3K/12 (Item 7 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00529972

**AUTOMATED PHARMACEUTICAL MANAGEMENT AND DISPENSING SYSTEM  
SYSTEME AUTOMATISE DE GESTION ET DE DISTRIBUTION PHARMACEUTIQUE****Patent Applicant/Patent Assignee:**

**NEXTRX CORPORATION;**

	Country	Number	Kind	Date
Patent	WO	9961324	A2	<b>19991202</b>
Application	WO	99US11631		19990526
Priorities	US	9885968		19980527

**Detailed Description:**

...means of a conveyor shuttle

system, shown representationally at 25,, where they are loaded with the desired "fast mover" medications for that patient bin or **medication** bin by the **dispensing** apparatus

26. The **robot** dispenser is **filled** with "fast mover" **medications** from storage 29 during off hours. The filled bin is then moved by the conveyor shuttle system **away** from the **dispensing** apparatus 26.

"Slow mover" medications (if any) are supplied

to the bin from a semi-automatic (or automatic), computer-assisted supplemental dose cart shown generally at...is at the SD cart 84, where the operator supplies the "slow mover" medications

which may be prescribed for a particular patient, but which are **not located** in the medication vaults.

The SD cart 84 includes several horizontal rows

of bar-coded bins, the rows spaced one above the other in a...

28/3K/13 (Item 8 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

(c) 2009 WIPO/Thomson. All rights reserved.

00498115

**PILL DISPENSING SYSTEM**  
**SYSTEME DE DISTRIBUTION DE PILULES**

**Patent Applicant/Patent Assignee:**

**MCKESSON AUTOMATED PRESCRIPTION SYSTEMS INC;**  
**WILLIAMS Jeffrey P;**  
**POTEPALOU Galina;**  
**DOLORES Allan;**  
**BERGERON Michael;**

	Country	Number	Kind	Date
Patent	WO	9929467	A2	19990617
Application	WO	98US25941		19981207
Priorities	US	97986247		19971205
	US	97986665		19971208
	US	98		19981204

**Detailed Description:**

...storing a plurality of bulk containers. Each respective container contains and stores a bulk quantity (e.g., 1 00 to 2000 pills) of a selected **pharmaceutical** to be dispensed.

A **robotic**, computer controlled arm is used to grasp a selected one of the containers that has the correct pills for the **prescription** to be **filled**.

The selected container is then removed from its receptacle with the **robot** arm and then placed by the **robot** arm on a counter/dispenser.

Pills are then dispensed in a correct number from the container by the counter and into a pill bottle that...

**IV. Text Search Results from Dialog**

**A. NPL Files, Abstract**

**File 35:Dissertation Abs Online 1861-2009/Jun**  
(c) 2009 ProQuest Info&Learning  
**File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13**  
(c) 2002 Gale/Cengage  
**File 65:Inside Conferences 1993-2009/Jul 02**  
(c) 2009 BLDSC all rts. reserv.  
**File 2:INSPEC 1898-2009/Jun W3**  
(c) 2009 The IET  
**File 474:New York Times Abs 1969-2009/Jul 02**  
(c) 2009 The New York Times  
**File 475:Wall Street Journal Abs 1973-2009/Jul 02**

(c) 2009 The New York Times  
**File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Jun**  
(c) 2009 The HW Wilson Co.  
**File 256:TecTrends 1982-2009/Jun**  
(c)2009 Info.Sources Inc.All rights reserved  
**File 5:Biosis Previews(R) 1926-2009/Jun W4**  
(c) 2009 The Thomson Corporation  
**File 73:EMBASE 1974-2009/Jun 30**  
(c) 2009 Elsevier B.V.  
**File 155:MEDLINE(R) 1950-2009/Jun 30**  
(c) format only 2009 Dialog  
**File 34:SciSearch(R) Cited Ref Sci 1990-2009/Jun W4**  
(c) 2009 The Thomson Corp  
**File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec**  
(c) 2006 The Thomson Corp  
**File 74:Int.Pharm.Abs 1970-2009/Mar B2**  
(c) 2009 The Thomson Corporation  
**File 42:Pharm. News Index 1974-2009/Jun W1**  
(c) 2009 ProQuest Info&Learning

Set	Items	Description
S1	1437352	(ROBOT? ? OR ROBOTIC? OR ROBO OR AUTOMAT??? OR ROBOPHARM? - OR TELEPHARMAC?)
S2	295390	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMAECEUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S3	175	(VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED? OR MECHANICAL OR MACHINE OR MECHANIZED OR SELF()SERVICE) (5N) (PHARMACIST? ? OR PHARMAECIST? ? OR PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMD OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC? OR TELEPHARMAC?)
S4	88027	("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED - OR LOCATED) OR UNATTENDED OR UNSUPERVISED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") (1W) (SUPERVISI?? OR OVERSIGHT OR - DIRECTION? ? OR PHARMACIST? ? OR PHARMAECIST? ? OR CHEMIST? ?)
S5	512	S4 (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR PHARMACY()TECH? ? OR PHYSICIAN? ?)
S6	133650	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR - OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT- ??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR - DIRECT???)
S7	960001	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? OR PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR INTERACT?????)
S8	2700	S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))
S9	0	(ROBOT? ? OR ROBOTIC OR ROBO) (5N) (PHARMA?) (5N) (FILL??? OR - PREPARE? ? OR PREPARING) (5N) (PRESCRIPTION? ?) (5N) (REMOTE OR REMOTELY) (3N) (CONTROL? OR OPERAT???)
S10	4358	S1 AND S2

S11	9	S10 AND S5
S12	1	S10 AND S8
S13	51	S10 AND S6
S14	7	S13 AND S7
S15	0	S3 AND S8
S16	16	S3 AND S7
S17	10	S3 AND S6
S18	14	(S11 OR S12 OR S14 OR S16 OR S17) NOT PY>2001
S19	12	RD (unique items)

19/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2: INSPEC

(c) 2009 The IET. All rights reserved.

06573333

**Title:** Builder, an interactive molecular construction utility-structural modelling using virtual reality on the web

**Author(s):** Robinson, A.J.; Hardy, B.J.

**Author Affiliation:** Phys. & Theor. Chem. Lab., Oxford Univ. , UK

**Journal:** THEOCHEM , vol.368 , pp.111-17

**Publisher:** Elsevier

**Country of Publication:** Netherlands

**Publication Date:** 27 Sept. 1996

**Conference Title:** Second Electronic Computational Chemistry Conference (ECC-2)

**Conference Date:** 1-30 Nov. 1996

**Conference Location:** Internet

**ISSN:** 0166-1280

**SICI:** 0166-1280(19960927)368L:111:BIMC;1-C

**CODEN:** THEODJ

**Document Number:** S0166-1280(96)04629-5

**U.S. Copyright Clearance Center Code:** 0166-1280/96/\$15.00

**Language:** English

**Subfile(s):** A (Physics); C (Computing & Control Engineering)

**INSPEC Update Issue:** 1997-019

**Copyright:** 1997, IEE

**Identifiers:** Builder v 1.2; glycoprotein; interactive molecular construction utility; scientific publishing medium; structural modelling; **virtual** reality; World Wide Web; **chemists**; biochemists; **interactive** WWW program; acronym; **Virtual Reality Modelling Language**; Successful Open Inventor graphics language; graphics language; hypertext language; hyperlinks; virtual worlds; WWW pages; MIME types; on-line utility; WWW forms interface...

19/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2: INSPEC

(c) 2009 The IET. All rights reserved.

06567222

**Title:** Embedded software poses challenges with growth, complexity

**Author(s):** Williams, T.

**Journal:** Computer Design (International Edition) , vol.35 , no.10 , pp.91-2

**Publisher:** PennWell Publishing

**Country of Publication:** USA

**Publication Date:** Sept. 1996

**ISSN:** 0010-4566

**SICI:** 0010-4566(199609)35:10L;91:ESPC;1-L

**CODEN:** CDESEL

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1997-018

**Copyright:** 1997, IEE

**Abstract:** ...software works well when it's not noticed, when you pick up the phone, drive your car, check out at the supermarket, or click the **remote control** of your stereo or TV. The pervasive nature of software means it carries the specialized knowledge and skill of many experts who also may or may not be expert programmers. The software's users may be telecommunications engineers, automotive engineers, **chemists**, **machine**-tool specialists, radar experts, instrumentation specialists, the list is endless. And they all want more and more sophisticated software support for their work. This demand...

19/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2: INSPEC

(c) 2009 The IET. All rights reserved.

02299962

**Title:** Materials testing by dynamic mechanical analysis

**Author(s):** Lofthouse, M.G.; Burroughs, P.

**Author Affiliation:** Du Pont [UK] Ltd., Hitchin, UK

**Journal:** Journal of Thermal Analysis , vol.13 , no.3 , pp.439-53

**Country of Publication:** UK

**Publication Date:** June 1978

**Conference Title:** Fifth Scandinavian Symposium on Thermal Analysis

**Conference Date:** 15-17 June 1977

**Conference Location:** Trondheim, Norway

**ISSN:** 0022-5215

**CODEN:** JTAEA9

**Language:** English

**Subfile(s):** A (Physics)

**INSPEC Update Issue:** 1979-002

**Copyright:** 1979, IEE

**Abstract:** ...also been used to study impact modified thermoplastics, elastometers and metals. DMA is one of the thermo-analytical techniques available to the research or quality **control chemist** for evaluating the **mechanical** properties of materials. With the introduction of the 980 it is anticipated that the disadvantages due to long operation time and complexity inherent in older...

19/3,K/4 (Item 1 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

(c) 2009 The Thomson Corporation. All rights reserved.

08738587 **Biosis No.:** 198784092736

**A CASE-CONTROL STUDY OF BLADDER CANCER USING CITY DIRECTORIES AS A**

## **SOURCE OF OCCUPATIONAL DATA**

**Author:** STEENLAAN K (Reprint); BURNETT C; OSORIO A M

**Author Address:** MAILSTOPE R15, NATL INST OCCUP SAF HEALTH, 4767 COLUMBIA PARKWAY, CINCINNATI, OHIO 45226, USA\*\*USA

**Journal:** American Journal of Epidemiology 126 ( 2 ): p 247-257 1987

**ISSN:** 0002-9262

**Document Type:** Article

**Record Type:** Abstract

**Language:** ENGLISH

**Abstract:** ...rather than a specific company name. Using city directories, significant positive associations were found between bladder cancer and occupation as an engineer, tailor, carpenter, furnace operator, blending machine operator, chemist, pressing machine operator, house cleaner, or salesman. For industry, the authors found significant positive associations for the textile, chemical, grain mill, foundry, petroleum, building service, entertainment, and advertising ...

19/3,K/5 (Item 1 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

(c) 2009 The Thomson Corporation. All rights reserved.

00335311 39-01697

## **VIRTUAL PATIENT TECHNOLOGY UTILIZED FOR TEACHING NONTRADITIONAL PHARMD STUDENTS**

Akers, P.; Klarich, H.; Piascik, P.

University of Kentucky

American Association of Colleges of Pharmacy Annual Meeting, V102, (Jul), p0, 2001

Abstract of Meeting Presentation

**Language:** English **Record Type:** Abstract

...of and evaluate effectiveness of innovative and interactive technology to assist in teaching pharmaceutical care to PharmD candidates in a distance learning program.

Methods: The **Virtual** Patient simulates a **pharmacist-patient interaction** situation using Top Class Course Management software. Students interact with virtual patients to take medication histories and gather information required for completing a therapeutic care...

19/3,K/7 (Item 3 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

(c) 2009 The Thomson Corporation. All rights reserved.

00321558 38-02108

## **MAXIMIZING DISTANCE LEARNING IN A TRADITIONALLY HANDS ON COURSE: PHYSICAL ASSESSMENT (PA) IN A NONTRADITIONAL PHARMD PROGRAM**

Blakey, S. A.; Hixson-Wallace, J. A.; Marquess, J.; Johnson, D.; Brooks, P. ; Smith, J. L.

Mercer Univ.Univ. of Georgia, GA, USA

American Association of Colleges of Pharmacy Annual Meeting, V101, (Jul), p160, 2000

Abstract of Meeting Presentation

**Language:** English **Record Type:** Abstract

...of distance learning and hands on instruction. Future PA courses will include 2 onsite workshops and CD-ROMs with videos demonstrating PA techniques in a **virtual patient/pharmacist interaction** .

19/3,K/8 (Item 4 from file: 74)  
DIALOG(R)File 74: Int.Pharm.Abs  
(c) 2009 The Thomson Corporation. All rights reserved.  
00318011 37-13328

**CONVERSION OF A TRADITIONAL THERAPEUTICS COURSE TO A WEB BASED INTERACTIVE FORMAT FOR NONTRADITIONAL PHARMD STUDENTS**

Akers, P.; Klarich, H.; Piascik, P.; Amerson, A.  
Univ. of Kentucky College of Pharmacy, Rose St., Lexington, KY 40536-0082, USA Internet:  
piascik@pop.uky.edu  
ASHP Midyear Clinical Meeting, V35, (Dec), pNTP-14, 2000  
Abstract of Meeting Presentation

**Language:** English **Record Type:** Abstract

...components include: audio-taped therapeutics lectures coordinated with Power Point slides on compact discs, fill-in the blanks handouts for the lectures, accompanying pathology lessons, **virtual** patient activities to simulate **pharmacist** patient **interactions**, asynchronous discussion groups for solving cases accessed via a virtual medical chart, and a virtual journal club. Course evaluations and surveys from the first 3 ...

19/3,K/9 (Item 5 from file: 74)  
DIALOG(R)File 74: Int.Pharm.Abs  
(c) 2009 The Thomson Corporation. All rights reserved.  
00307233 37-02499

**NONTRADITIONAL PHARMD COURSES CONVERTED TO INTERACTIVE WEB-BASED LEARNING FORMAT**

Lovell, C. J.; Amerson, A. B.; Piascik, P.  
University of Kentucky, KY, USA  
American Association of Colleges of Pharmacy Annual Meeting, V100, (Jul), p25, 1999  
Abstract of Meeting Presentation

**Language:** English **Record Type:** Abstract

...Course components include: 1) audio-taped lectures coordinated with Power Point slides on compact discs; 2) accompanying handouts with fill-in-the-blanks; 3) simulated **pharmacist**-patient **interaction** with **virtual** patients; and 4) groups working via asynchronous discussion to solve PBL-like cases accessed as virtual medical charts.

The course went live in January, 1999...

19/3,K/10 (Item 6 from file: 74)  
DIALOG(R)File 74: Int.Pharm.Abs  
(c) 2009 The Thomson Corporation. All rights reserved.  
00283596 35-04505

**TELEMEDICINE: NEW FRONTIER**

Snyder, K.  
Drug Topics (USA), V141, (Aug 4), p60-62, 64, 66, 1997

**CODEN:** DRTOAJ **ISSN:** 0012-6616 **Language:** English **Record Type:** Abstract

Telemedicine and its applications in pharmacy practice are presented, including the history of telemedicine, current applications such as home telemedicine, **remote dispensing**, and compliance aids;

barriers to development such as licensing debates for both pharmacists and physicians, regulatory issues, malpractice concerns, and privacy violations are discussed.

**Descriptors:** Telepharmacy -- practice, overview; History -- telepharmacy, health care; Health care -- home, telepharmacy; Regulations -- telepharmacy, overview; Malpractice -- **telepharmacy**, overview; Licensure -- **pharmacists, telemedicine; Dispensing -- remote , telepharmacy**; Communication -- **pharmacists, telemedicine**; Compliance -- patients, **telepharmacy**; Licensure -- physicians, **telemedicine**; **Pharmacists** -- licensure, **telemedicine**; Physicians -- licensure, **telemedicine**; Automation -- dispensing, **telepharmacy**; Pharmacy -- practice, **telemedicine**; Patient information -- confidentiality, telemedicine

19/3,K/12 (Item 8 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

(c) 2009 The Thomson Corporation. All rights reserved.

00000584 07-0584

**#OQ#OQMEDITROL"--A NEW AUTOMATED MEDICATION DISPENSING SYSTEM**

Bombinski, T. J.; Millar, W. C.

St. John's McNamara Hospital, Rapid City, South Dakota 57701

American Journal of Hospital Pharmacy (USA), V27, (Jan), p50-55, 1970

**CODEN:** AJHPA9 **ISSN:** 0002-9289 **Language:** English **Record Type:** Abstract

**#OQ#OQMEDITROL"--A NEW AUTOMATED MEDICATION DISPENSING SYSTEM**

This paper introduces a new system of **drug distribution** called Meditrol.

A description of the components, their function and operating procedures is presented. The 3 main components of this new system are a Meditrol console, 5 Meditrol **dispensing** cabinets and 2 **remote** Meditrol phones.

The report of the preliminary pilot study indicates that this system can be effectively utilized to provide drug information service and patient drug ... ..personnel. The remote Meditrol phone units allow the pharmacist to extend his services over a 24-hour period without increasing the actual hours of pharmacy **operation**. The **pharmacist** can **dispense** 234 different **drugs** or dosage forms to 5 nursing units without leaving his home 2 miles from the hospital.

Tentative plans to expand the Meditrol system include use... ..and incorporation of data processing equipment. It is anticipated that these improvements will double the effectiveness of the system so that approximately 60% of patient **drug** orders will be **dispensed** through the Meditrol system.

Benson

**Descriptors:** Drug **distribution** systems -- Meditrol, **automated medication dispensing** system, description; Pharmacy, institutional, hospital -- Meditrol drug **distribution** system, **automated medication dispensing** system, description; **Automation** -- medication **dispensing** system, Meditrol drug **distribution** system described; **Dispensing** -- **automated** , system, Meditrol **drug distribution** system described

B. NPL Files, Full-text



**File 15:ABI/Inform(R) 1971-2009/Jul 01**  
(c) 2009 ProQuest Info&Learning  
**File 9:Business & Industry(R) Jul/1994-2009/Jul 01**  
(c) 2009 Gale/Cengage  
**File 610:Business Wire 1999-2009/Jul 02**  
(c) 2009 Business Wire.  
**File 810:Business Wire 1986-1999/Feb 28**  
(c) 1999 Business Wire  
**File 275:Gale Group Computer DB(TM) 1983-2009/Jun 04**  
(c) 2009 Gale/Cengage  
**File 624:McGraw-Hill Publications 1985-2009/Jul 02**  
(c) 2009 McGraw-Hill Co. Inc  
**File 621:Gale Group New Prod.Annou. (R) 1985-2009/May 27**  
(c) 2009 Gale/Cengage  
**File 636:Gale Group Newsletter DB(TM) 1987-2009/Jun 10**  
(c) 2009 Gale/Cengage  
**File 613:PR Newswire 1999-2009/Jul 02**  
(c) 2009 PR Newswire Association Inc  
**File 813:PR Newswire 1987-1999/Apr 30**  
(c) 1999 PR Newswire Association Inc  
**File 16:Gale Group PROMT(R) 1990-2009/Jun 10**  
(c) 2009 Gale/Cengage  
**File 160:Gale Group PROMT(R) 1972-1989**  
(c) 1999 The Gale Group  
**File 634:San Jose Mercury Jun 1985-2009/Jul 01**  
(c) 2009 San Jose Mercury News  
**File 148:Gale Group Trade & Industry DB 1976-2009/Jun 17**  
(c) 2009 Gale/Cengage

Set	Items	Description
S1	5262146	(ROBOT? ? OR ROBOTIC? OR ROBO OR AUTOMAT??? OR ROBOPHARM? - OR TELEPHARMAC?)
S2	801064	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMAECEUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S3	1568	(VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED? OR MECHANICAL OR MECHANIZED OR SELF()SERVICE OR AUTOMAT???) (5N) (PHARMACIST? ? OR PHARMAECIST? ? OR PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMD OR PHARMACY()TECH OR TECHNICIAN? ?) OR ROBOPHARMAC? OR TELEPHARMAC?)
S4	121404	("NOT" OR UN) (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED - OR LOCATED) OR UNATTENDED OR UNSUPERVISED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") (1W) (SUPERVISI?? OR OVERSIGHT OR DIRECTION? ? OR PHARMACIST? ? OR PHARMAECIST? ? OR CHEMIST? ?)
S5	1183	S4 (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR PHYSICIAN? ?)
S6	465084	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR (DIFFERENT OR OTHER) (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT???)
S7	478977	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? OR

PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULA-  
T??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR INTERACT?????)

S8 5113 S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR O-  
FFSITE OR OFF() SITE OR AWAY OR REMOVED OR AFAR OR FAR OR FIELD  
OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR  
OTHER) () (LOCATION? ? OR PLACES))

S9 0 (ROBOT? ? OR ROBOTIC OR ROBO) (5N) (PHARMA?) (5N) (FILL??? OR -  
PREPARE? ? OR PREPARING) (5N) (PRESCRIPTION? ?) (5N) (REMOTE OR R-  
EMOTELY) (3N) (CONTROL? OR OPERAT???)

S10 7084 S1 (5N) S2

S11 0 S10 (10N) S5

S12 0 S10 (10N) S8

S13 29 S10 (10N) S6

S14 0 S13 (10N) S7

S15 6 S13 AND S7

S16 0 S3 (10N) S8

S17 40 S3 (5N) S7

S18 2 S17 (10N) S5

S19 0 S17 (10N) (S8 OR S6)

S20 2 S3 (5N) S6

S21 0 S10 (5N) S4

S22 10 S10 (5N) S7

S23 12 (S13 OR S18 OR S20 OR S22) NOT PY>2001

S24 10 RD (unique items)

S25 23 S17 NOT (S23 OR PY>2001)

S26 19 RD (unique items)

24/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

(c) 2009 ProQuest Info&Learning. All rights reserved.

02126719 68976099

# **Trends now changing the world: Technology, the workplace, management, and institutions**

Cetron, Marvin J; Davies, Owen

Futurist v35n2 pp: 27-42

Mar/Apr 2001

ISSN: 0016-3317 Journal Code: FUS

Word Count: 8481

## **Text:**

...other organs; drugs that prevent disease rather than merely treating symptoms; and body monitors that warn of impending trouble.

\* Surgeons working via the Internet will **operate** on patients in **remote** areas, using **robot manipulators**.

\* By 2006, 10% of **prescriptions** will be **filled** over the Internet, just as prescription drugs have been bought by mail order since the 1970s.

24/3,K/3 (Item 1 from file: 9)

DIALOG(R)File 9: Business & Industry(R)

(c) 2009 Gale/Cengage. All rights reserved.

01410502 Supplier Number: 24076704 (USE FORMAT 7 OR 9

**FOR FULLTEXT)**

**Developing technology systems to complement decentralized systems ( Longs Drug Stores has decentralized operating structure that depends strongly on the merchandising skills as well as decision-making abilities of its store managers )**

Drug Store News , v 19 , n 18 , p 83+  
November 03, 1997

**Document Type:** Journal; Cover Story **ISSN:** 0191-7587 ( United States )

**Language:** English **Record Type:** Fulltext

**Word Count:** 1558 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...build our category management solution, which is unique."  
Longs' technology efforts have have also targeted the pharmacy. One of the chain's goals is to **automate prescription dispensing** functions as fully as possible, to make script **filling** a simpler and **far** faster process. To do that, the information systems team created its own script-dispensing software, linked with Baker cells in a handful of test pharmacies...

24/3,K/4 (Item 2 from file: 9)

DIALOG(R)File 9: Business & Industry(R)

(c) 2009 Gale/Cengage. All rights reserved.

01336353 Supplier Number: 23986270

**Telemedicine: The New Frontier**

**( Telemedicine, in which a physician, nurse or pharmacist communicates to a patient via phone and video links, could be the wave of the future )**

Drug Topics , v 141 , n 15 , p 60+

August 04, 1997

**Document Type:** Journal; Cover Story **ISSN:** 0012-6616 ( United States )

**Language:** English **Record Type:** Abstract

**ABSTRACT:**

...indicated that 50% of home health care visits could have been accomplished by telemedicine. ADDS Inc (North Billerica, MA) offers units that allow pharmacists to **dispense medication** at **remote** sites. The **automated dispensing** devices contain prepackaged bottles of medications. InforMedix Inc (Rockville, MD) offers a Personal Medical Assistant that reminds patients to take their pills, offering a picture...

24/3,K/5 (Item 1 from file: 636)

DIALOG(R)File 636: Gale Group Newsletter

DB(TM)(c) 2009 Gale/Cengage. All rights reserved.

03617412

**Supplier Number:** 47489233

**The News Monitor:** New Video Telepharmacy

**Links Pharmacy and Hospital Industry**

Healthcare PR & Marketing News , v 6 , n 13 , p N/A

June 26 , 1997

**Language:** English **Record Type:** Fulltext

**Document Type:** Newsletter ; Trade

**Word Count:** 279

**Supplier Number: (USE FORMAT 7 FOR FULLTEXT)**

**Text:**

...ever. ADDS, Inc. (N. Billerica, Mass.) has linked its fully interactive telemedicine system with the University of Utah Hospital's clinic, integrating telemedicine technology with **remotely controlled automated drug dispensing** services, for the first time. Filling a rural void for healthcare delivery, a major challenge for many pharmacies and hospitals, ADDS launched its first fully...

24/3,K/6 (Item 1 from file: 613)

DIALOG(R)File 613: PR Newswire

(c) 2009 PR Newswire Association Inc. All rights reserved.

00408478 20000906DCW025 **(USE FORMAT 7 FOR FULLTEXT)**

**It's Not Your Granddad's VA Anymore**

PR Newswire

Wednesday , September 6, 2000 10:15 EDT

**Journal Code:** PR **Language:** ENGLISH **Record Type:** FULLTEXT **Document Type:** NEWSWIRE

**Word Count:** 843

**Text:**

...center by videoconferencing among their local VA facilities and patients in their homes. It's cost effective for the large geographic area.

In Nashville, Tenn., "telepharmacy" allows **medications** to be **dispensed** 40 miles **away** at VA's Clarksville facility. Here's how it works: A Clarksville doctor enters the prescription in VA's computerized patient records system, CPRS. That...

24/3,K/7 (Item 1 from file: 813)

DIALOG(R)File 813: PR Newswire

(c) 1999 PR Newswire Association Inc. All rights reserved.

1107911 PHTH024

**Ridge Administration Announces June PIDA Loan Approvals; New Jersey Manufacturer to Relocate to Pennsylvania**

**Date:** June 5, 1997 12:34 EDT **Word Count:** 1,173

**Correction:**

...1.4 million loan to construct a 50,000-square-foot building at 700-900 Waterfront Drive, Washington's Landing, Pittsburgh. The company

manufactures centralized **robotic drug distribution** systems and is currently **operating** five miles **away**. The \$4 million project is expected to create 70 jobs. Sixty-seven employees will transfer to the new site. The sponsoring local economic development agency ...

24/3,K/8 (Item 1 from file: 16)

DIALOG(R)File 16: Gale Group PROMT(R)

(c) 2009 Gale/Cengage. All rights reserved.

05545959 **Supplier Number:** 48406520 (USE FORMAT 7 FOR FULLTEXT)

**Pharmacy regulatory affairs champions for change**

Frederick, James

Drug Store News , p 74

April 6 , 1998

**Language:** English **Record Type:** Fulltext

**Document Type:** Magazine/Journal ; Trade

**Word Count:** 836

...changes in chain pharmacy practice that can improve efficiencies and free pharmacists up to spend more time managing drug therapy and counseling patients. That includes **automated dispensing**, pharmacist/technician ratios, electronic **prescription** transmission and **off-site dispensing**, or hub-and-spoke dispensing.

Wagner and Baroni are also working with chains across the country to build up their representation on state pharmacy boards...

24/3,K/9 (Item 2 from file: 16)

DIALOG(R)File 16: Gale Group PROMT(R)

(c) 2009 Gale/Cengage. All rights reserved.

05321030 **Supplier Number:** 48099828 (USE FORMAT 7 FOR FULLTEXT)

**Developing technology systems to complement decentralized systems**

Frederick, James

Drug Store News , p 83

Nov 3 , 1997

**Language:** English **Record Type:** Fulltext

**Document Type:** Magazine/Journal ; Trade

**Word Count:** 1577

...build our category management solution, which is unique.'

Longs' technology efforts have have also targeted the pharmacy. One of the chain's goals is to **automate prescription dispensing** functions as fully as possible, to make script **filling** a simpler and **far** faster process. To do that, the information systems team created its own script-dispensing software, linked with Baker cells in a handful of test pharmacies...

**File 149:TGG Health&Wellness DB(SM) 1976-2009/May W5**  
(c) 2009 Gale/Cengage  
**File 444:New England Journal of Med. 1985-2009/Jun W3**  
(c) 2009 Mass. Med. Soc.  
**File 129:PHIND(Archival) 1980-2009/May W4**  
(c) 2009 Informa UK Ltd  
**File 130:PHIND(Daily & Current) 2009/Jul 02**  
(c) 2009 Informa UK Ltd  
**File 455:Drug News & Perspectives 1992-2005/Aug**  
(c) 2005 Prous Science

Set	Items	Description
S1	1067223	(ROBOT? ? OR ROBOTIC? OR ROBO OR AUTOMAT??? OR ROBOPHARM? - OR TELEPHARMAC?)
S2	1011448	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMAECEUTIC??? OR PHARMACO???? OR PHARMAECO???? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS OR PATIENT? ? (-)CASSETTE? ?)
S3	371	(VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED? OR MECHANICAL OR MECHANIZED OR SELF()SERVICE OR AUTOMAT???) (5N) (PHARMACIST? ? OR PHARMAECIST? ? OR PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMD OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC? OR TELEPHARMAC?)
S4	148866	("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED - OR LOCATED) OR UNATTENDED OR UNSUPERVISED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") (1W) (SUPERVISI?? OR OVERSIGHT OR - DIRECTION? ? OR PHARMACIST? ? OR PHARMAECIST? ? OR CHEMIST? ?)
S5	738	S4 (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR PHARMACY()TECH? ? OR PHYSICIAN? ?)
S6	343123	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR - OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT???)
S7	776839	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? - OR PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? OR ACTIVAT??? OR INTERACT?????)
S8	6517	S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))
S9	0	(ROBOT? ? OR ROBOTIC OR ROBO) (5N) (PHARMA?) (5N) (FILL??? OR - PREPARE? ? OR PREPARING) (5N) (PRESCRIPTION? ?) (5N) (REMOTE OR REMOTELY) (3N) (CONTROL? OR OPERAT???)
S10	1546	S1 (5N) S2
S11	0	S10 (15N) S5
S12	0	S10 (15N) S8
S13	6	S10(10N) S6
S14	122	S10 (5N) S7
S15	0	S14 (20N) S4

S16	0	S3 (10N) S8
S17	7	S3 (10N) S7
S18	3	S3 (10N) S6
S19	1	S10 (5N) S4
S20	6	(S13 OR S17 OR S18 OR S19) NOT PY>2001
S21	6	RD (unique items)
S22	1	S14 NOT (S21 OR PY>2001)

21/3,K/1 (Item 1 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

(c) 2009 Dialog. All rights reserved.

20116349 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Medication Safety Solution Priority for Northeast Georgia Health System; McKesson's State-of-the-Art Pharmacy System to Complement Robotic Solutions**

PR NEWSWIRE

December 03, 2001

**Journal Code:** WPRW **Language:** English **Record Type:** FULLTEXT

**Word Count:** 726

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...value, customer satisfaction and technology. Now generally available, Release 7.1 features new integration for electronic order processing, adult and pediatric dose range checking and **automatic** intervention documentation, enabling **pharmacists** to better **manage** medication safety challenges.

Mackey noted that Horizon Meds Manager is "light years ahead of what we've been using." She went on to say, "There...

21/3,K/2 (Item 2 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

(c) 2009 Dialog. All rights reserved.

14802528

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**Officer grade posts in Pakistan Railways to be filled through promotions**

T. A. MALIK

BUSINESS RECORDER

January

25, 2001

**Journal Code:** WBRE **Language:** English

**Record Type:** FULLTEXT

**Word Count:** 454

...Joint Director Mechanical Engineer (Bs-19), Deputy Chief Controller of Purchase/Technical (Bs-19), Divisional Mechanical Engineers (Bs-18), Senior Mechanical Engineers (Bs-18), Works **Managers** (Bs-18), **Assistant** Directors/Mechanical Engineering/Procurement/Stores (Bs-18), Chief **Chemist** and Metallurgist (Bs-18), **Mechanical** Engineers/Training (Bs-18), and Senior Mechanical Officers (Bs-18).

The 75 percent posts of Assistant Mechanical Engineers (Bs-17) would be filled through direct...

21/3,K/3 (Item 3 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

(c) 2009 Dialog. All rights reserved.

13032448 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**St. Paul, Minn., Conference Targets Lack of Phone Service on Reservations**

Martin J. Moylan

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS ( STAR-LEDGER - NEWARK, NEW JERSEY)

September 27, 2000

**Journal Code:** KSLN **Language:** English **Record Type:** FULLTEXT

**Word Count:** 692

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...is pretty good, but high-speed data services needed to link government offices tighter and provide distance learning, telework opportunities and "telepharmacies," are lacking. With **telepharmacies**, pharmacists **remotely dispense drugs** through a sort of vending machine that's equipped with a video camera.

"The nearest pharmacy to Lake Lena (on the Mille Lacs reservation) is ...

21/3,K/4 (Item 4 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

(c) 2009 Dialog. All rights reserved.

12708372 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**It's Not Your Granddad's VA Anymore**

PR NEWSWIRE

September 06, 2000

**Journal Code:** WPRW **Language:** English **Record Type:** FULLTEXT

**Word Count:** 837

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...center by videoconferencing among their local VA facilities and patients in their homes. It's cost effective for the large geographic area.

In Nashville, Tenn., "**telepharmacy**" allows **medications** to be **dispensed** 40 miles **away** at VA's Clarksville facility. Here's how it works: A Clarksville doctor enters the prescription in VA's computerized patient records system, CPRS. That...

21/3,K/5 (Item 5 from file: 20)

DIALOG(R)File 20: Dialog GlobalReporter

(c) 2009 Dialog. All rights reserved.

06948378

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**ASIANET WEEKEND SUMMARY TO MONDAY, AUGUST 30**

ASIA PULSE



August 30, 1999

**Journal Code:**

WAPL **Language:** English **Record Type:** FULLTEXT

**Word Count:** 619

...code into its switching solutions.

CONTENT EXPANSION..... NEW ORLEANS:

ChemWeb said in a weekend statement that it was significantly increasing content on ChemWeb.com, the **virtual** community promoting **interaction** of **chemists** internationally.

Director of Operations Bill Town said that the constantly expanding range of content, service and new functionality continued to attract more members who returned...

21/3,K/6 (Item 1 from file: 129)

DIALOG(R)File 129: PHIND(Archival)

(c) 2009 Informa UK Ltd. All rights reserved.

00509506

**Web site to link disease information with drug ordering**

E-med-News 25 p 14 , September 24, 1996 (19960924)

**Story Type:** F **Word Count:** 120

...Medilife also plans to open new health sections to tie in with planned software and on-line centres for nutrition, women's health and weight **control**. A '**virtual pharmacist**' will also be available on TND to answer customer questions.

22/3,K/1 (Item 1 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

(c) 2009 Dialog. All rights reserved.

10510852

**(USE FORMAT 7 OR 9 FOR FULLTEXT)**

**Axolotl Announces Agreement With HealthBridge Clinical Messaging**

BUSINESS WIRE

April 11, 2000

**Journal Code:** WBWE **Language:** English

**Record Type:** FULLTEXT

**Word Count:** 737

...interactive forms that incorporate medical necessity rules, automatic Advanced Beneficiary Notice (ABN) generation, labeling, and alerts. Elysium Prescription Writer allows physicians to quickly and easily **automate** two critical procedures--**prescription** writing and **refill management**. **Physicians** and their staffs use standard Web browsers to access clinical results and manage order entry and prescription writing with their healthcare partners.

Executives from Axolotl...

## V. Additional Resources Searched

### ProQuest

1 document found for: *TEXT((robot\* or robotic or robo) w/5 (fill\* or prepar\*) w/5 (prescription\* or medicat\* or medicament\*)) AND TEXT((remote or remotely) w/5 (control\* or operat\* or command\* or manipul\*)) AND PDN(<6/18/2001)*

### **Robots in health care drawing rave reviews at area hospitals**


*Jeff Bell, Business First, Columbus: Oct 27, 2000. Vol. 17, Iss. 9; pg. A3*

Robbie should be a top candidate for employee of the month at Mount Carmel East Hospital.

He neither takes a sick day, nor a vacation. He is always on time for work, doesn't argue with coworkers and never asks for overtime even though he is on duty around the clock just fine-tune his circuitry, give him a jolt of electricity and Robbie is off and running as he fills prescriptions, restocks medicine racks and helps track billing and inventory in Mount Carmel East's pharmacy.

On the job since August, Robbie is the second robot to be added at the hospital since February 1999. He joined East's mechanical matriarch, Rosie, an R2D2style robot that nimbly carries food trays to patient rooms across the sprawling hospital.

East administrator point out their hospital isn't the first in Columbus to use robots. Grant and Riverside hospitals have employed robotics in their pharmacies for several years, and

 Ohio State University Medical Center is seen as a leader in the use of robotics.

OSU was the first hospital in North America to use the da Vinci ComputerEnhanced Surgical System, which uses remote-controlled surgical instruments guided by a surgeon at a computer keyboard. OSU Medical Center also has a robot that runs errands between its laboratories and robotic equipment that conducts tests on blood and other samples.

Like those other hospitals, Mount Carmel Health System is looking at ways that robotics can improve operational efficiencies, said Mount Carmel East Chief Operating Officer Ron Whiteside. He said pharmacy robots like Robbie will be added at Mount Carmel West and St. Ann's, possibly as soon as next summer.

Whiteside also thinks robotics could make sense for other departments if mechanization can help ease labor shortages and free skilled workers from mundane chores.

"It's a matter of job enrichment for our pharmacists," Whiteside said. "It's not very exciting for them to be putting drugs back in a bin. This way, they can focus on the job they are trained to do."

Saving salaries, benefits, drug costs

Robbie the robot doesn't mind filling prescription bins or restocking medicines not used by patients. Following commands from the pharmacy's computer, Robbie uses his robotic arm to read and pull bar-coded medicines from product racks, matching the right drugs with prescription orders from doctors.

Robbie seems pleased with its duties, pleasantly hissing and whirling while traveling back and forth along a track located in a glass booth in the pharmacy. And Robbie doesn't goof up when filling orders, said Joseph Melucci, pharmacy director at Mount Carmel East.

"It will never pick an incorrect bar code, so it will never pick an incorrect medication," he said.

Robbie's only slip-ups, Melucci added, are occasionally dropping a medication packet on the floor. They are promptly retrieved by pharmacy staff members.

Melucci said the robot has allowed East to cut four full-time positions in the pharmacy. No one was dismissed, however, because job vacancies were left unfilled while the pharmacy geared up for Robbie's debut.

"It was kind of scary to them at first."

Melucci said of employee reaction to Robbie. "We were eliminating positions, and the technology is intimidating. It blows you away when you open that door and see all those computer parts."

East expects to recoup its investment on Robbie over the next three to four years, according to Melucci, and the robot is expected to operate for 10 years or more. In addition to saving \$213,000 a year on salaries and benefits, the hospital will be able to buy more bar-coded medication packets, which should save \$40,000 a year, Melucci estimated.

Mount Carmel paid a total \$1.7 million for Robbie and the two other robotic systems that will be installed at Mount Carmel West and St. Ann's. They are manufactured by Pittsburgh-based Automated Health Care, a division of [McKesson/HBOC](#).

Cheap, complicated labor

Mount Carmel East is leasing Rosie for \$6.50 an hour, said Mona Shinn, director of nutrition services at the hospital. That is less than what the hospital pays entry-level workers, she noted.

Manufactured by Pyxis, a division of Columbus-based [Cardinal Health Inc.](#), Rosie delivers about 100 food trays a day to patient rooms. They are what Shinn calls "late trays" ones ordered after regular meal delivery times.

Before Rosie arrived, Shinn's department struggled to find staff to deliver those meals. Now they program Rosie and she is off on her way.

The squat, trackless robot has been implanted with a CAD map of the hospital's nursing units. Rosie uses that information as she crawls up and down hallways and jumps aboard elevators.

Rosie comes equipped with motion sensors that help her dodge staff members and visitors. She is also programmed to sound a warning when pedestrians get too close. "I'm about to move," Rosie will say. "Please stand clear."

"And she will tell you if she doesn't know where she is," Shinn said, adding the robot carries a telephone number that staff members can call if Rosie runs awry. The number is right under Rosie's Mount Carmel ID card, complete with her picture.

"Rosie has been very well-received by the staff," Shinn said, "and visitors are fascinated. They ask 'What is it? Where's it going? What can it do?'"